

FIG. 1A

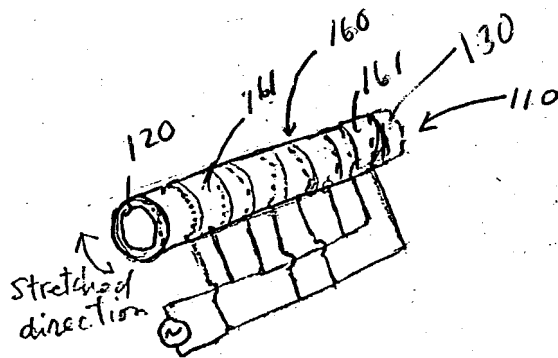


FIG. 1B

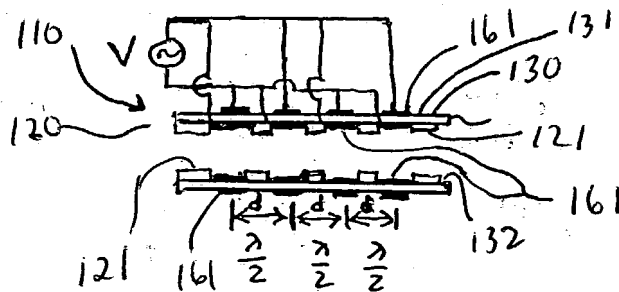


FIG. 1C

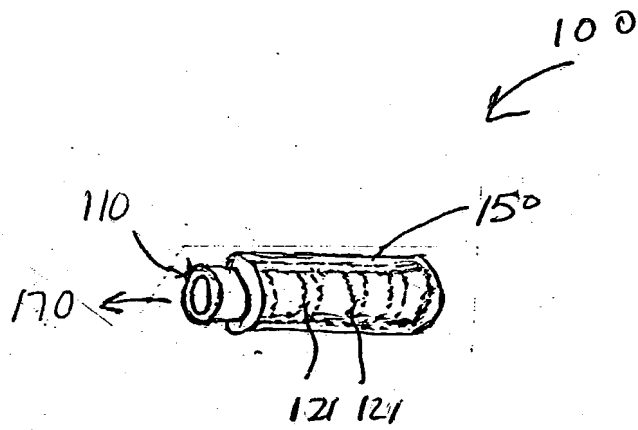


FIG. 1D

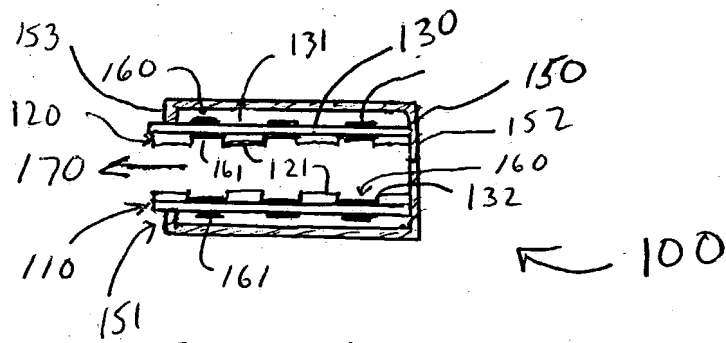
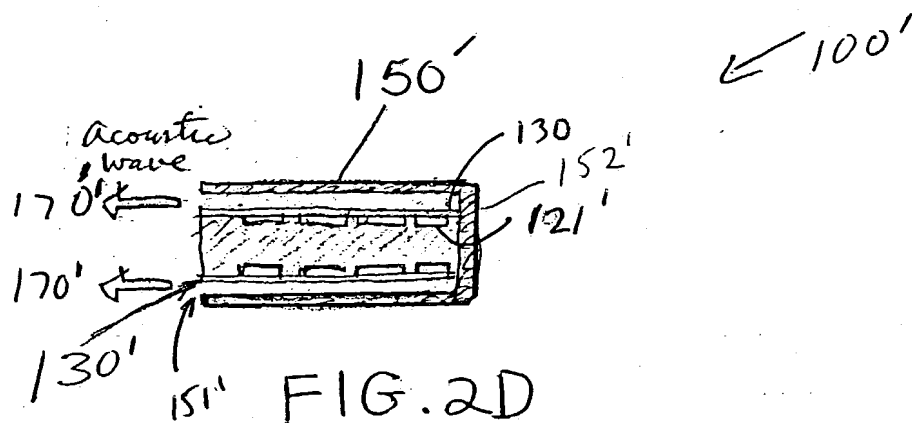
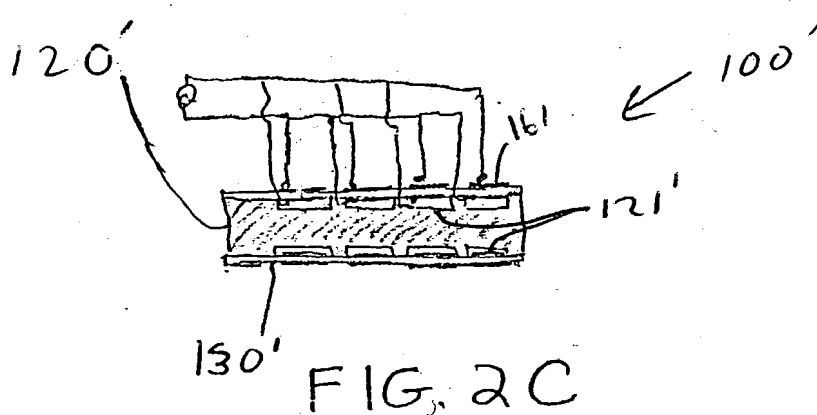
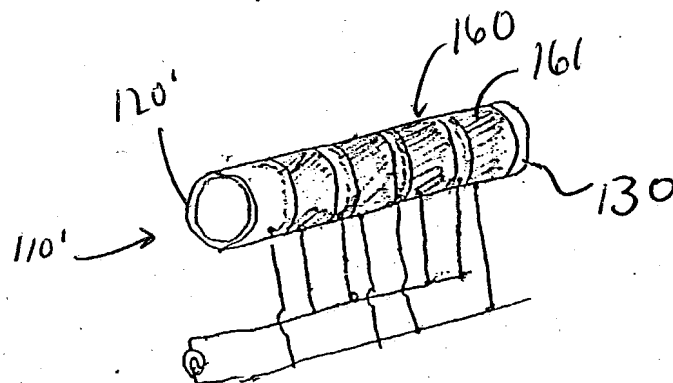
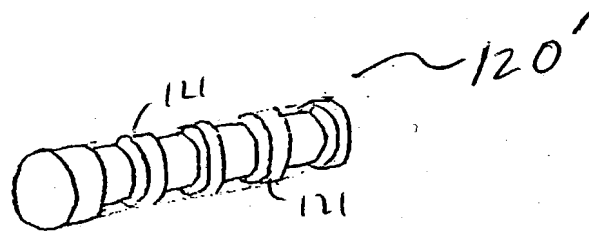


FIG. 1E



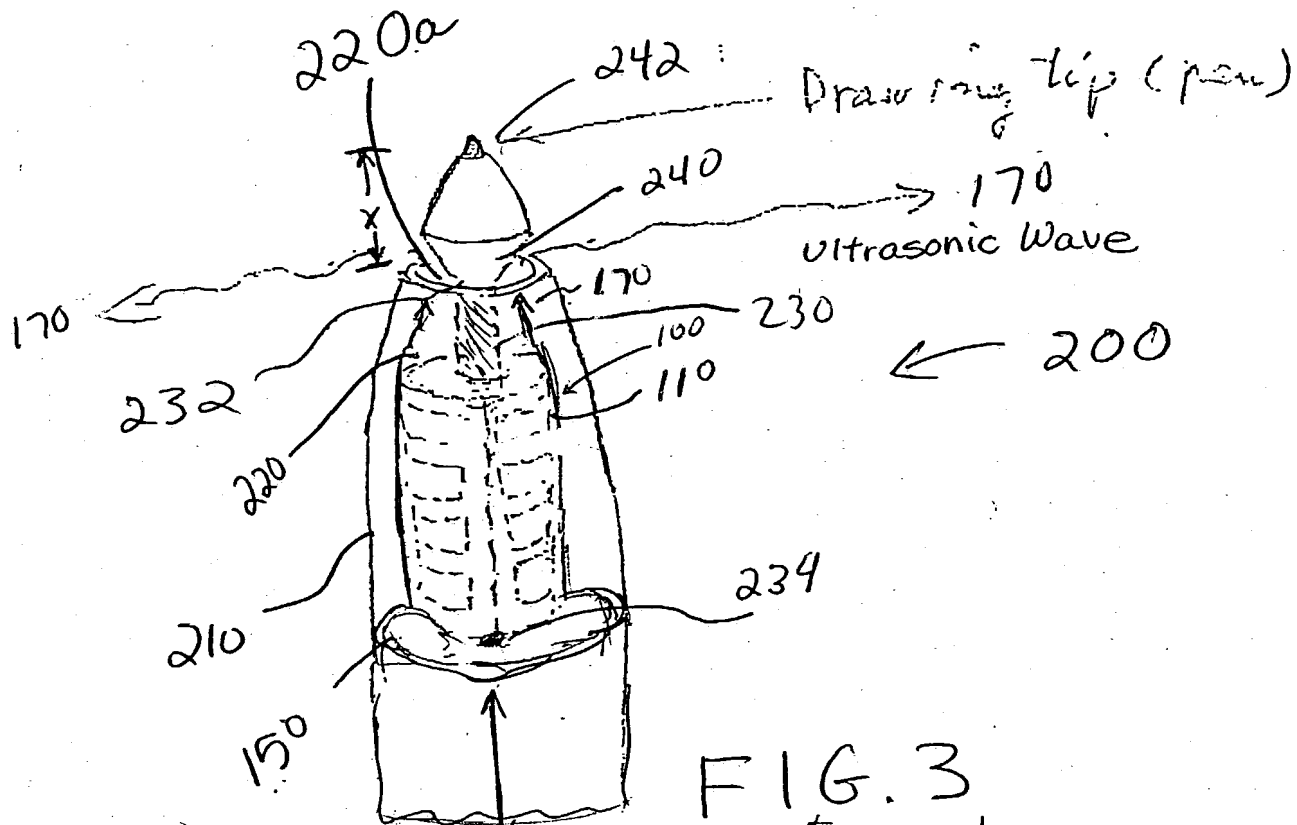


FIG. 3  
Another shape of ultrasonic wave exits

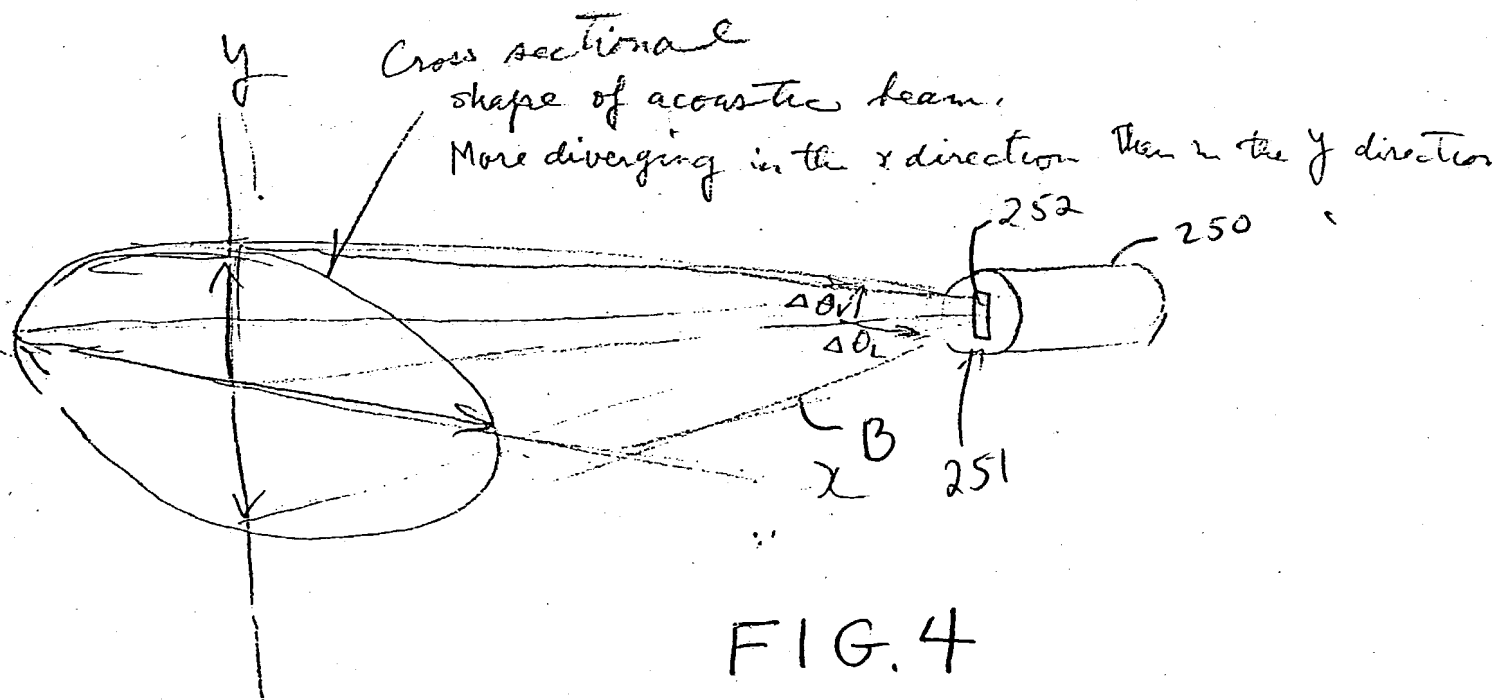


FIG. 4

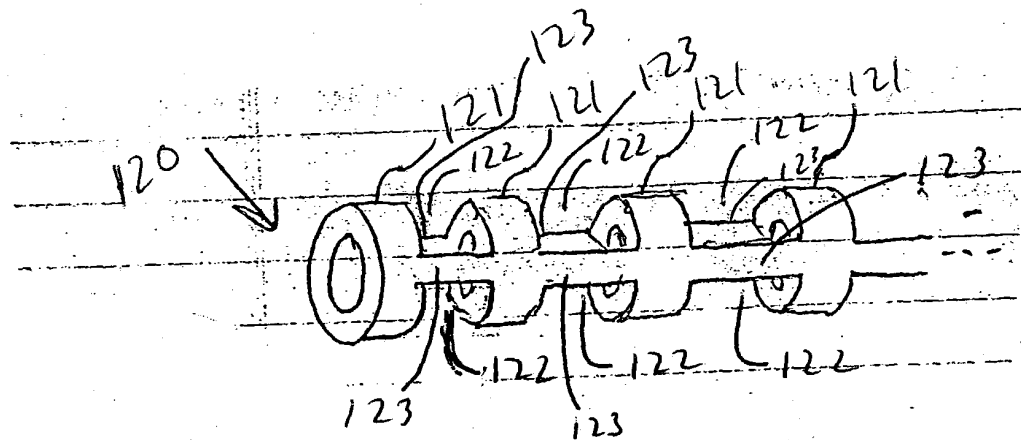


FIG. 5A

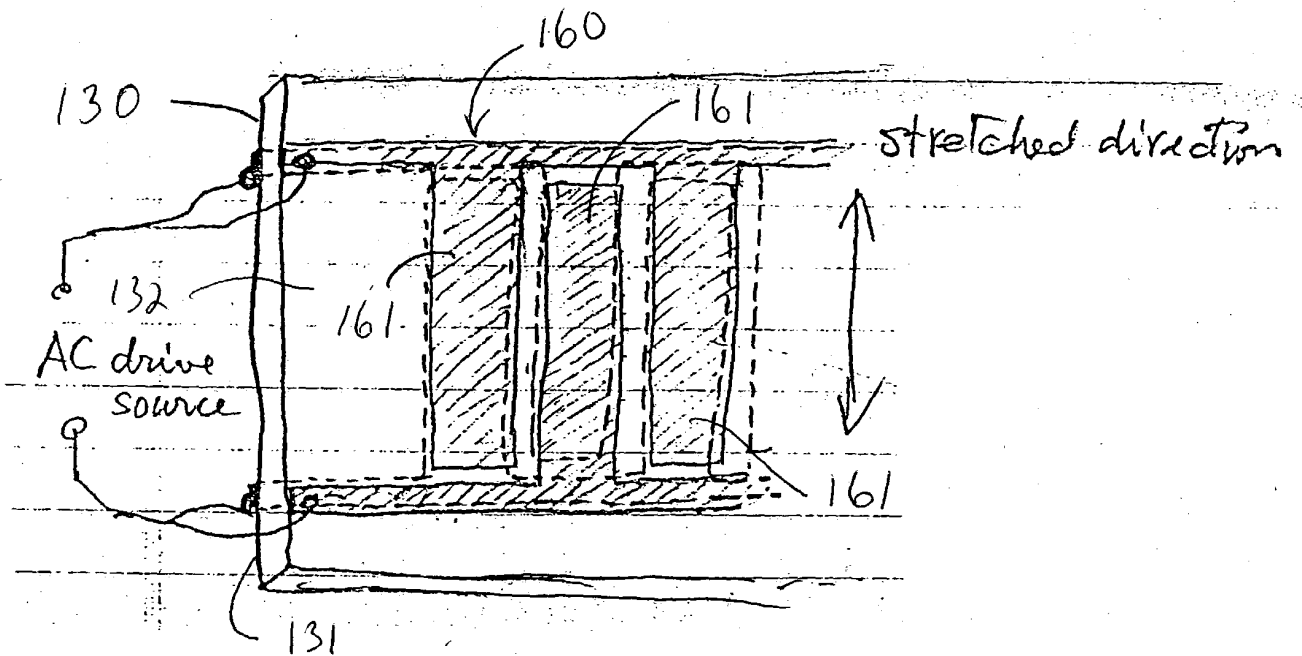


FIG. 5B

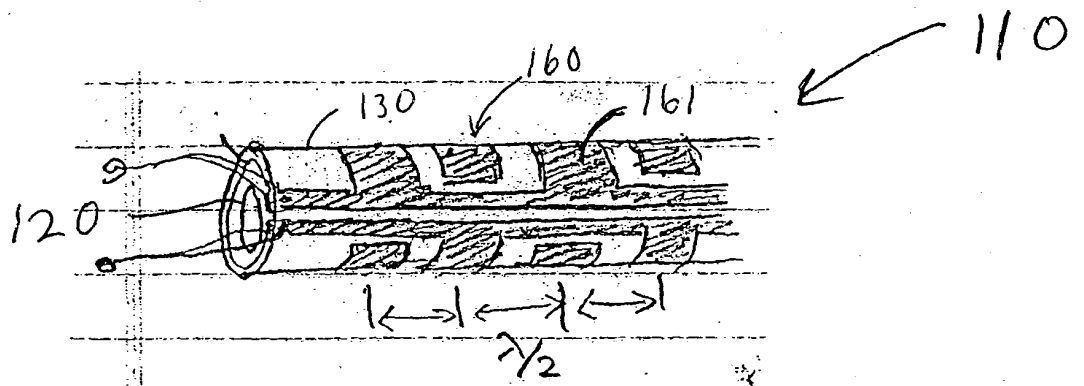


FIG. 5C

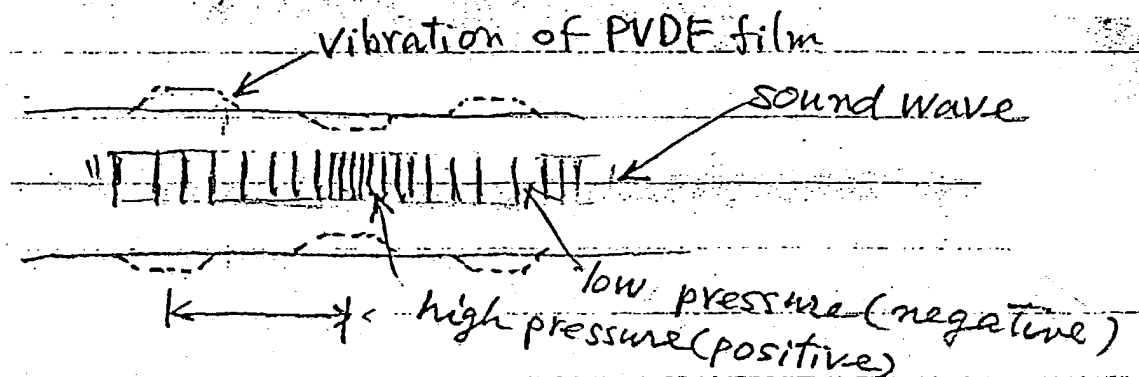


FIG. 6

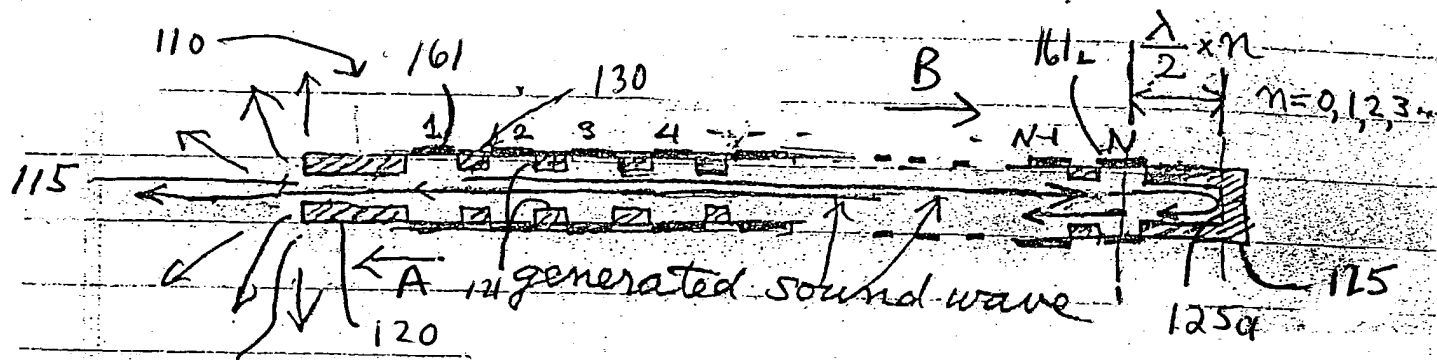


FIG. 7 [cross-sectional View]

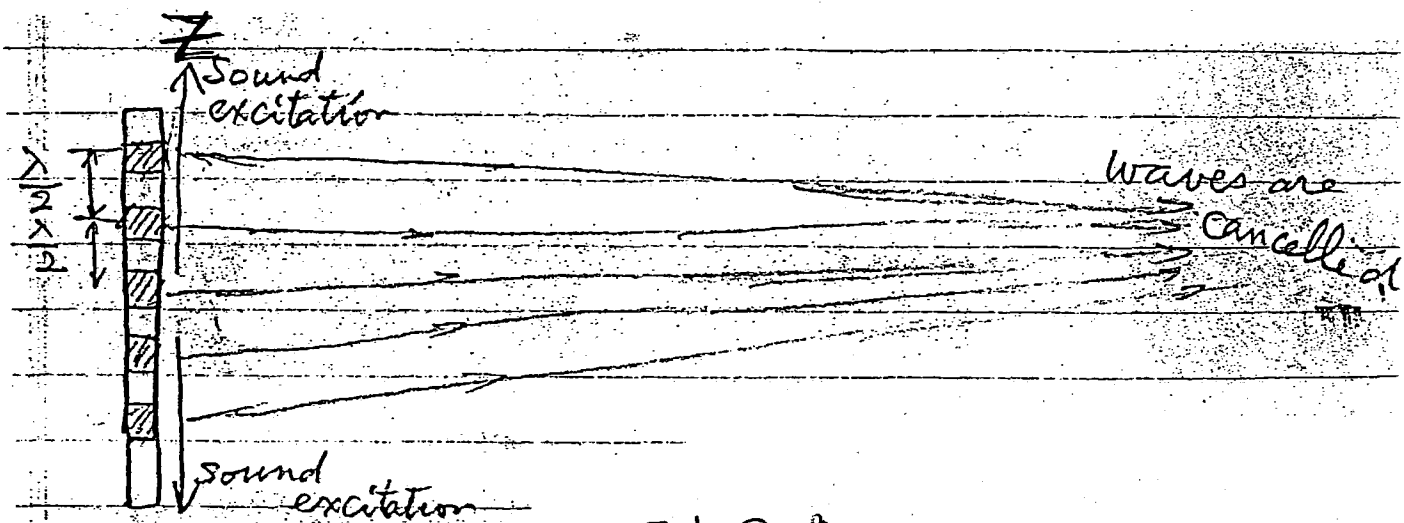


FIG. 8

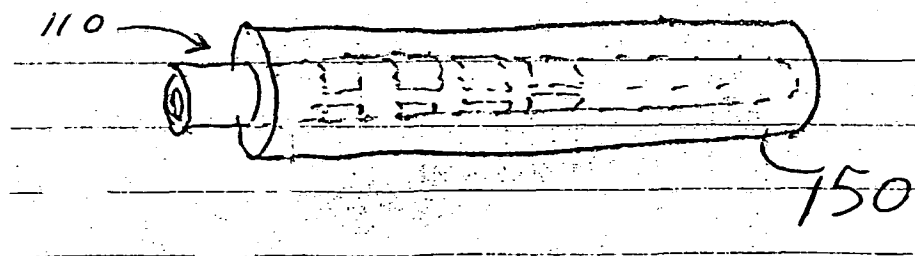
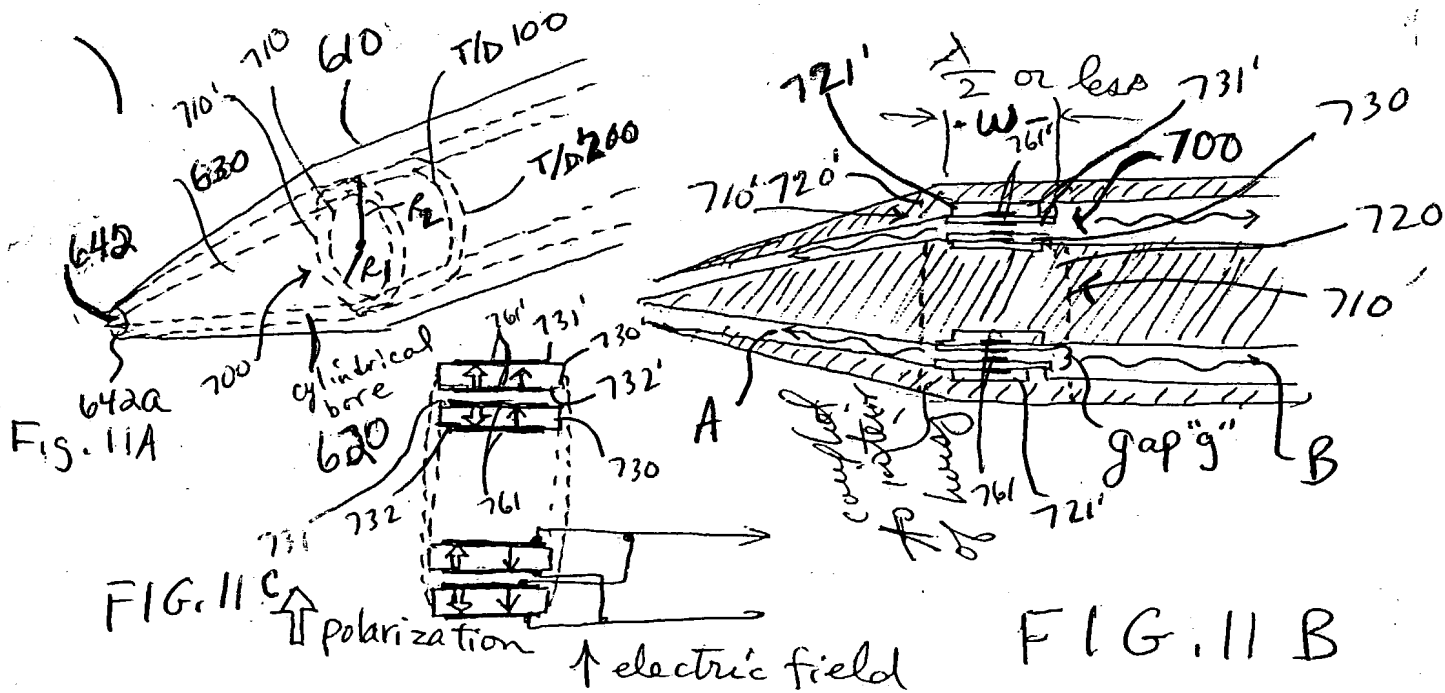
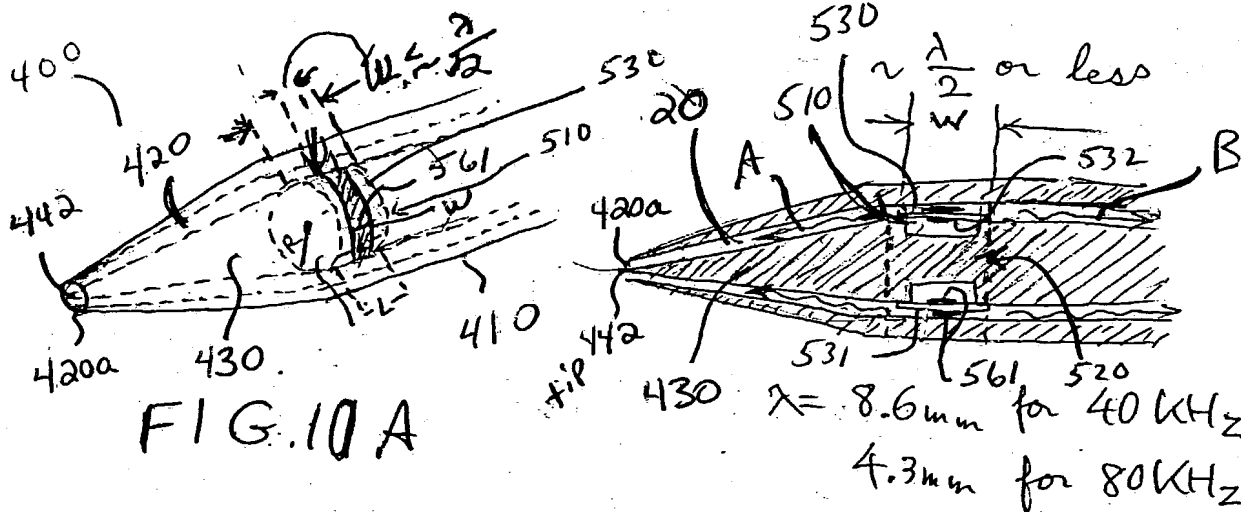
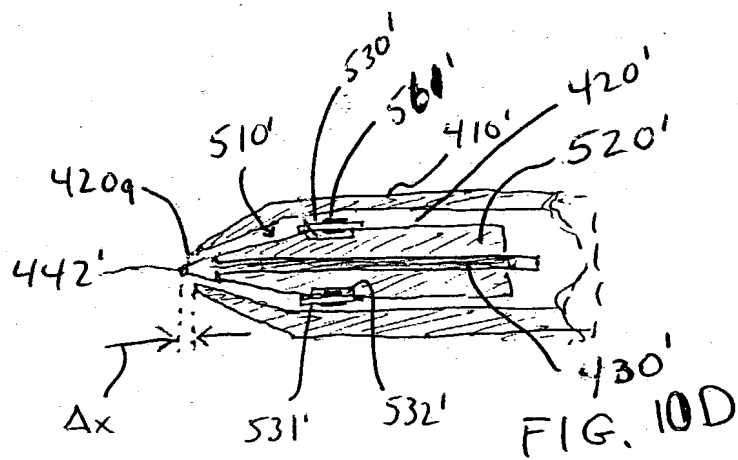
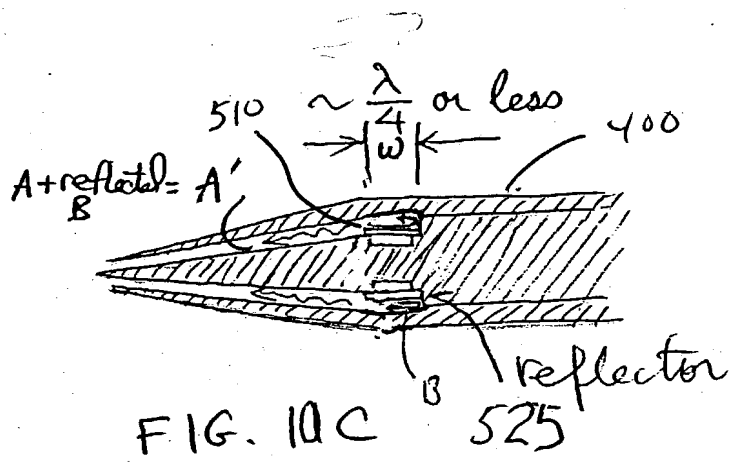


FIG. 9







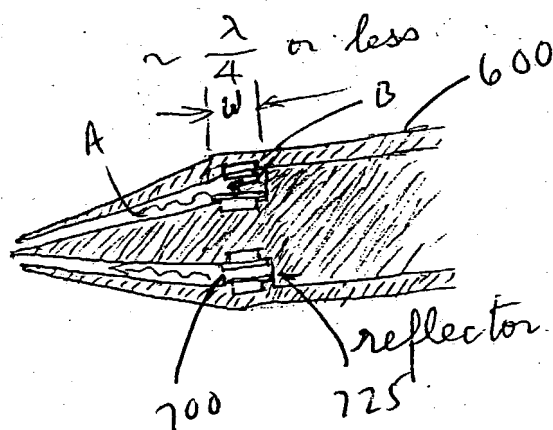


FIG. 11 D

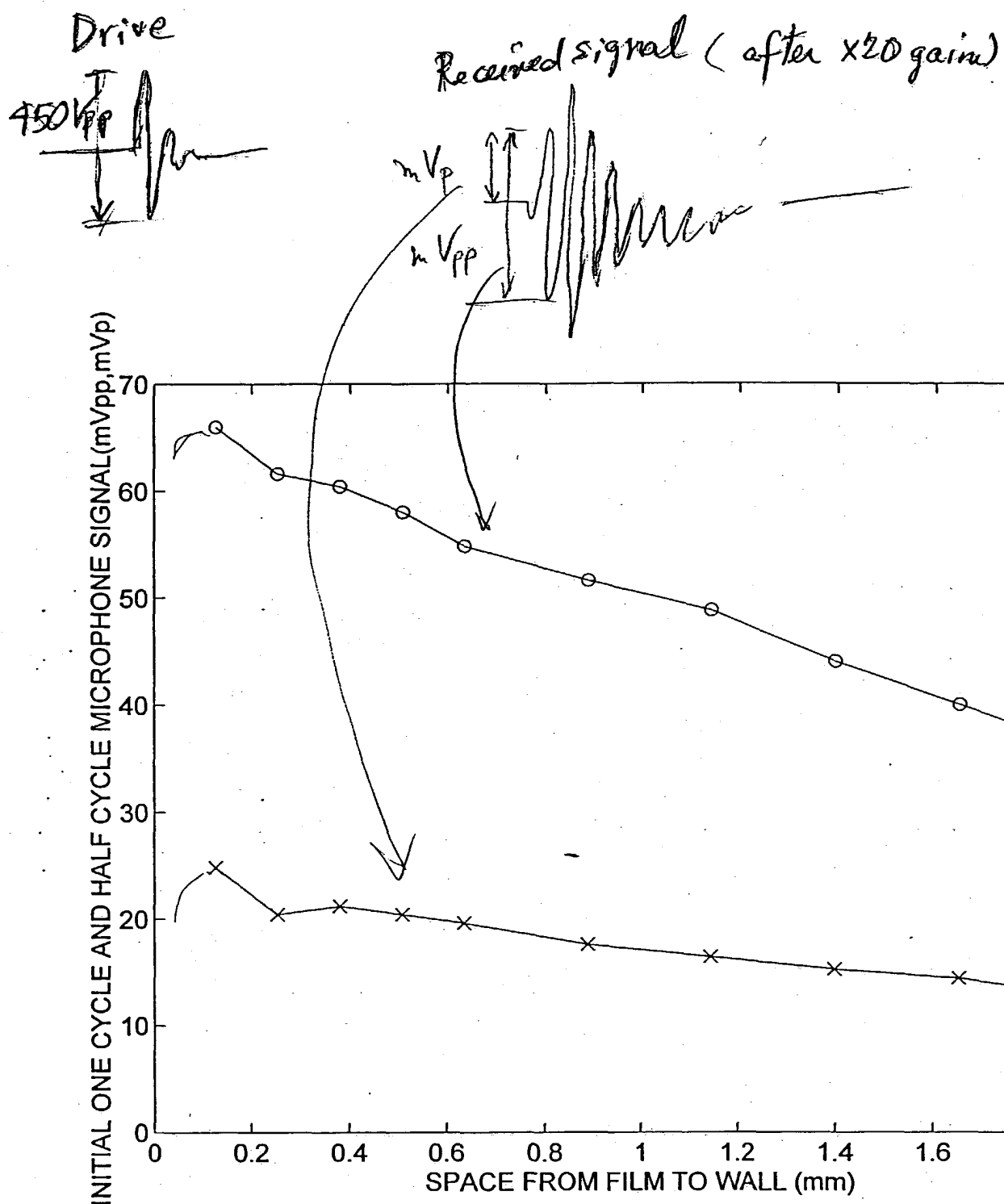
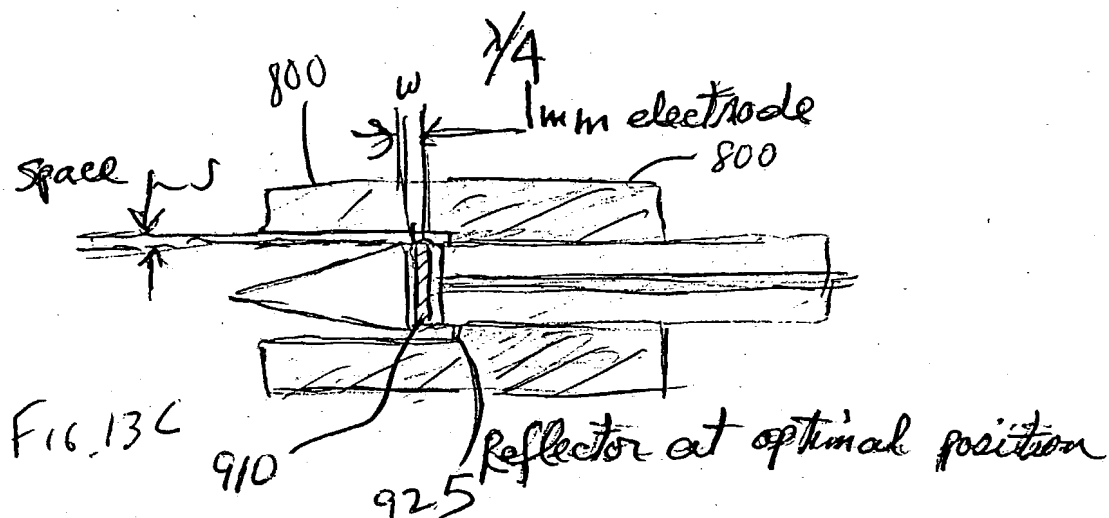


FIG. 12



32Vpp 20 CYCLE BURST, SIGNAL mVpp FROM X20 AMPLIFIER, B&K MICROPHONE (3.4mV/Pa), 12.5cm

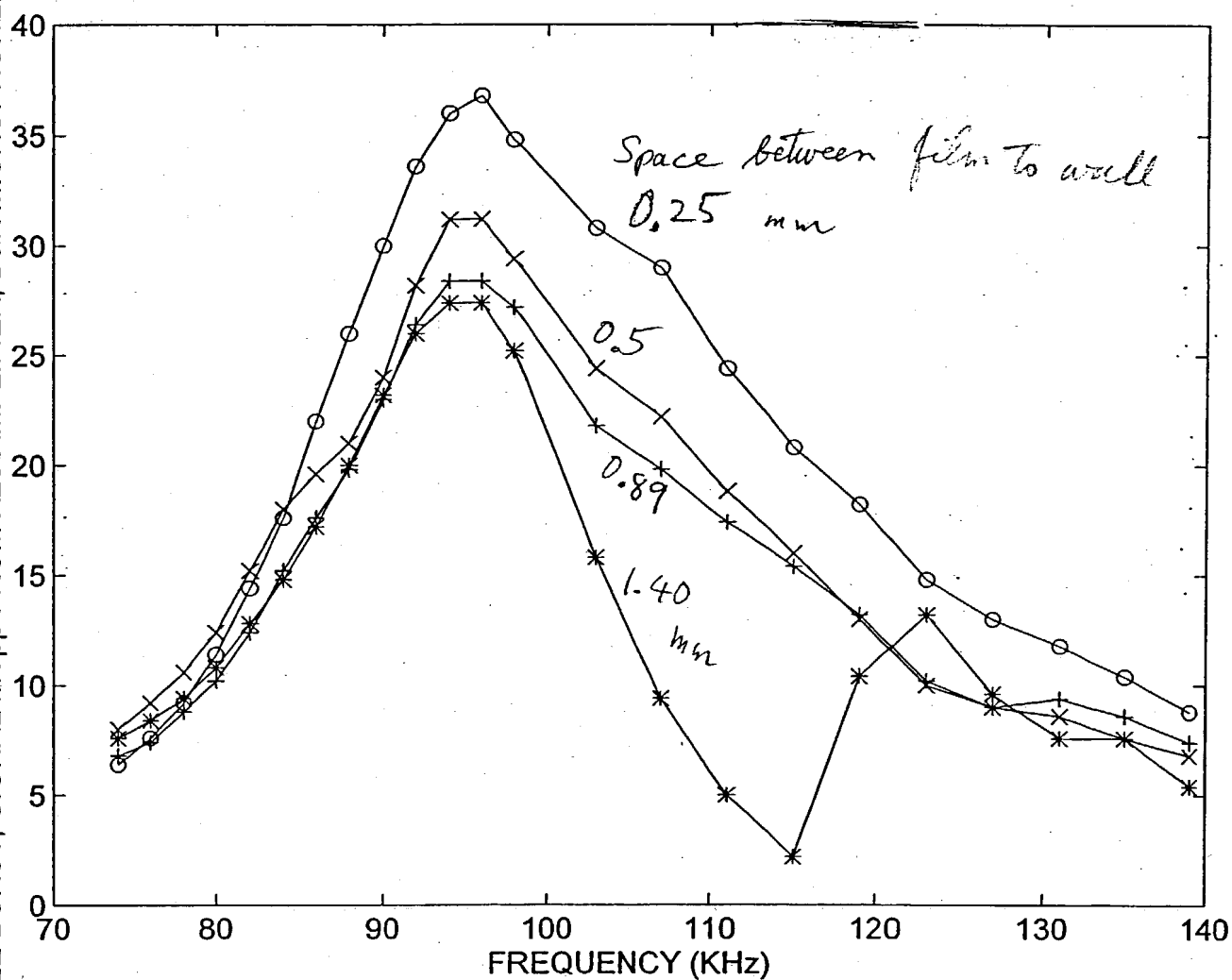


FIG. 13A

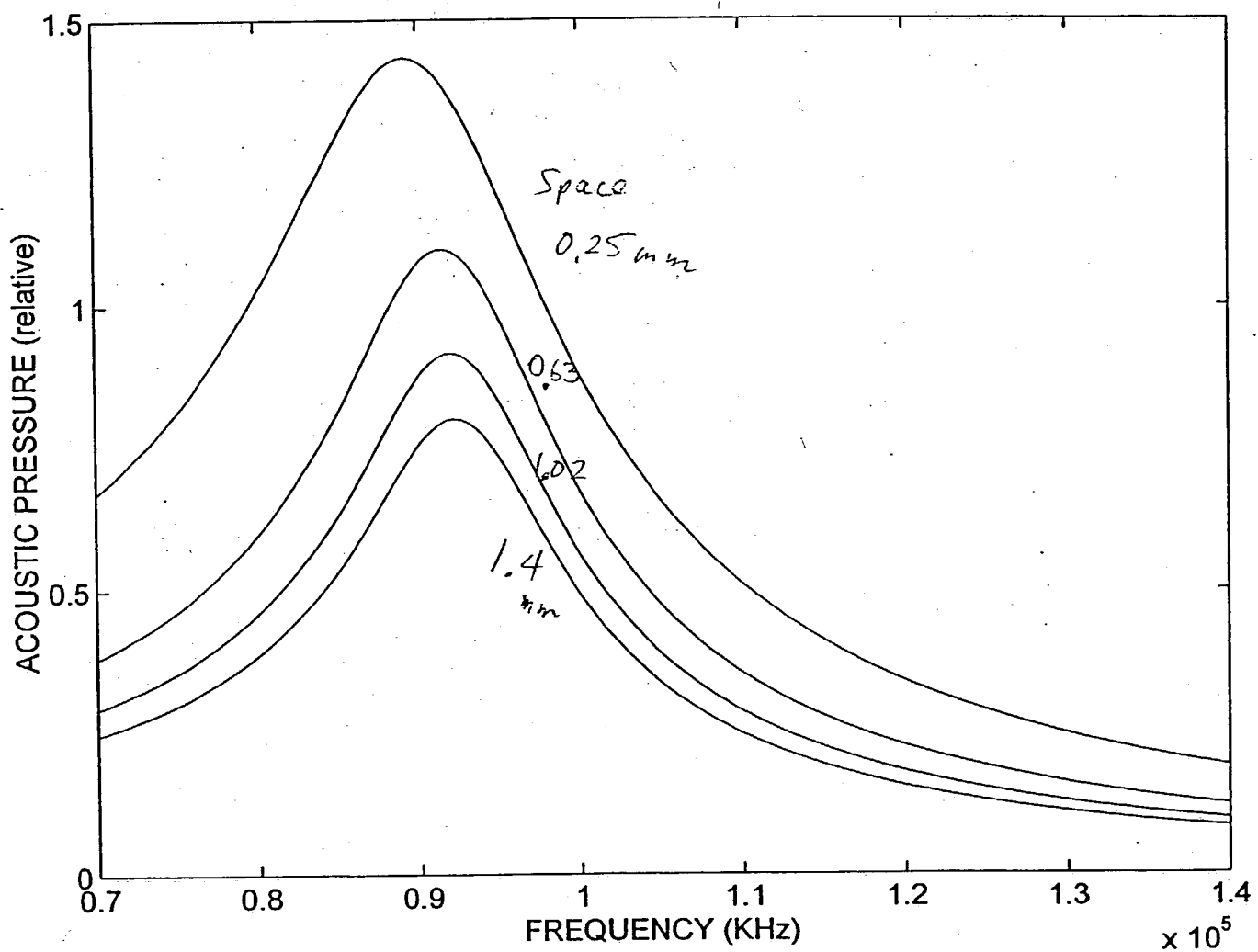


FIG. 13B

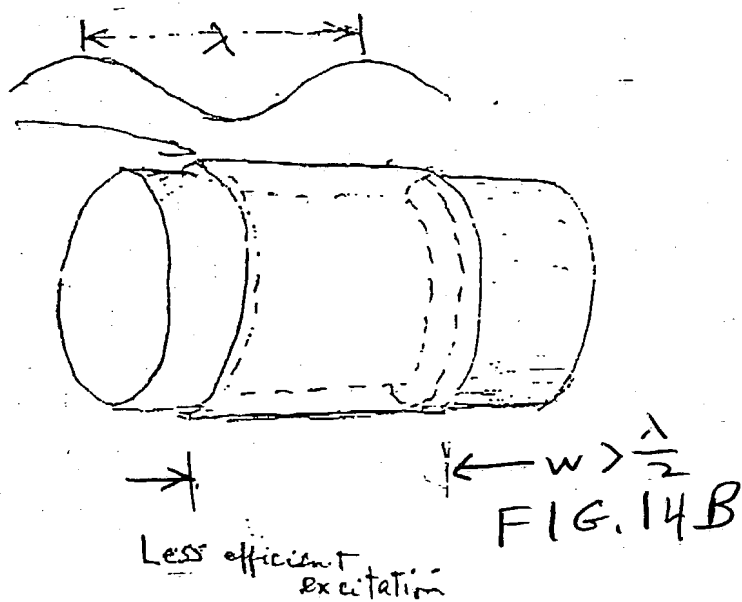
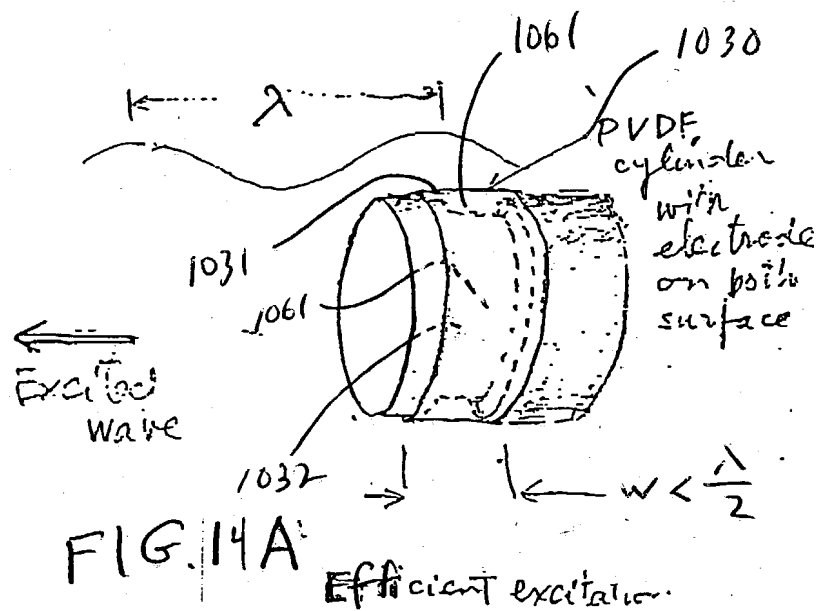


FIG. 15

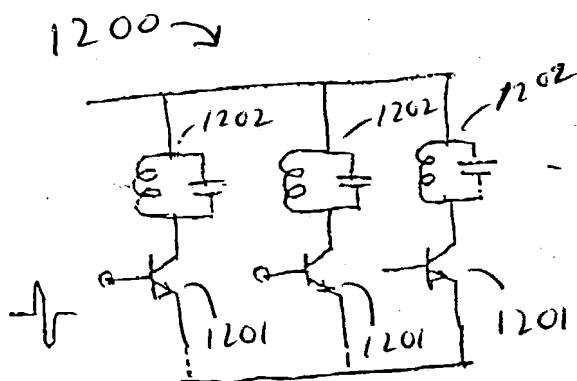
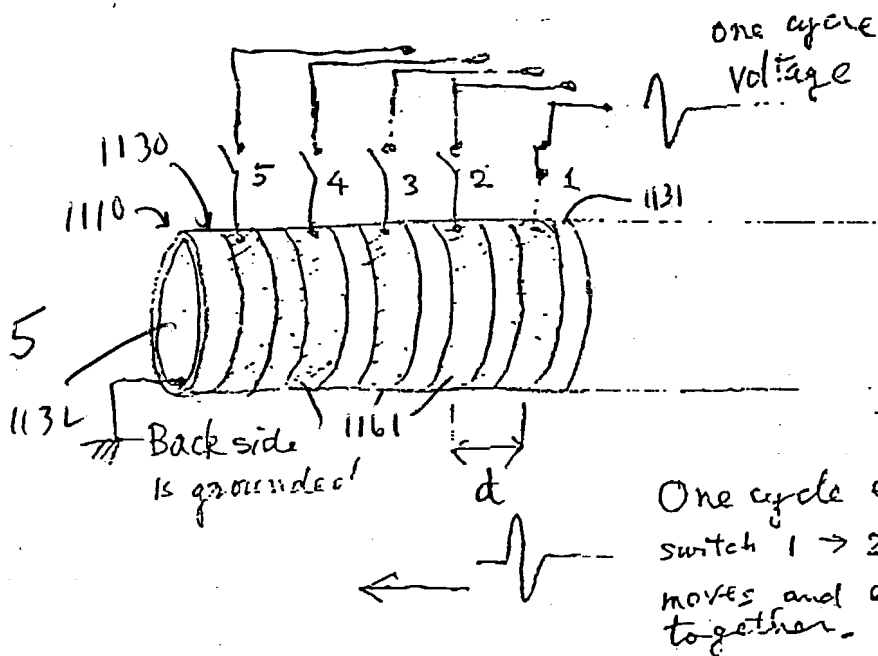


FIG. 16

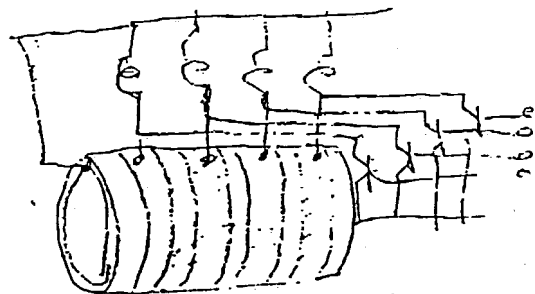


FIG. 17

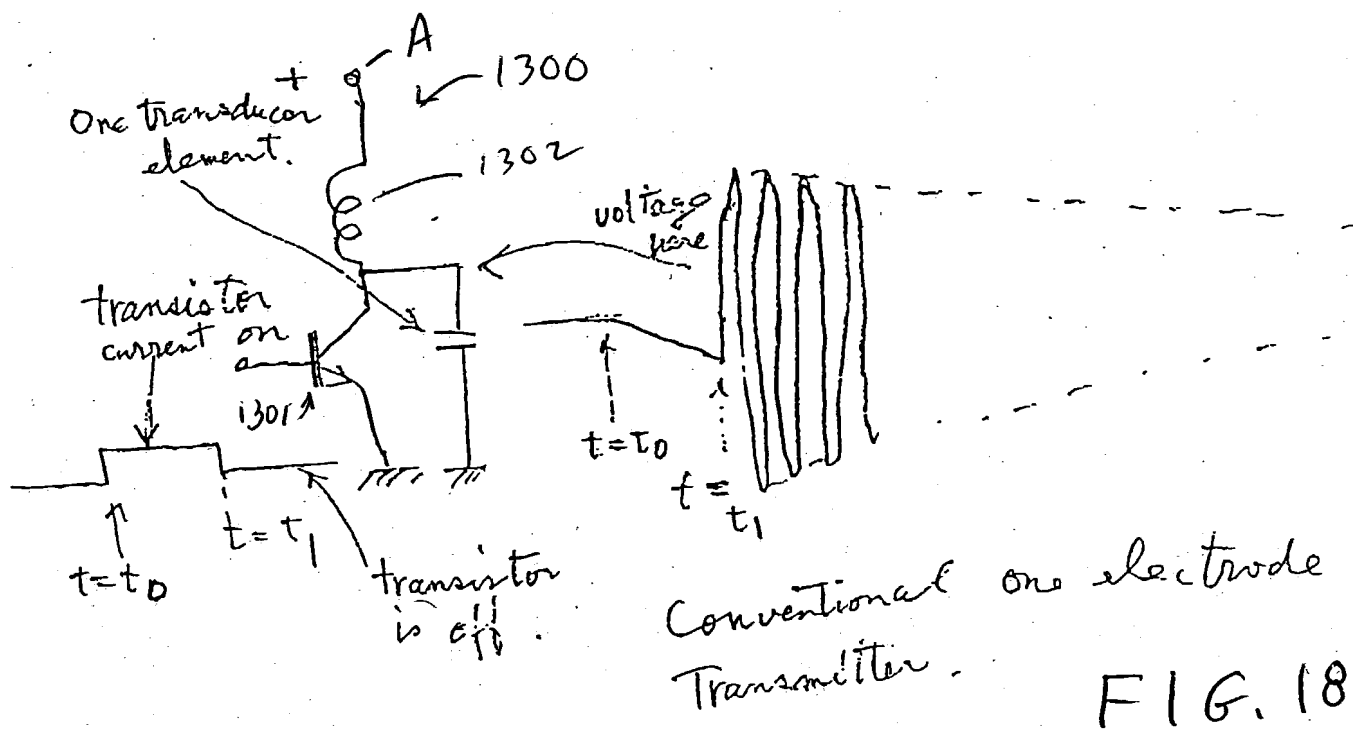


FIG. 18

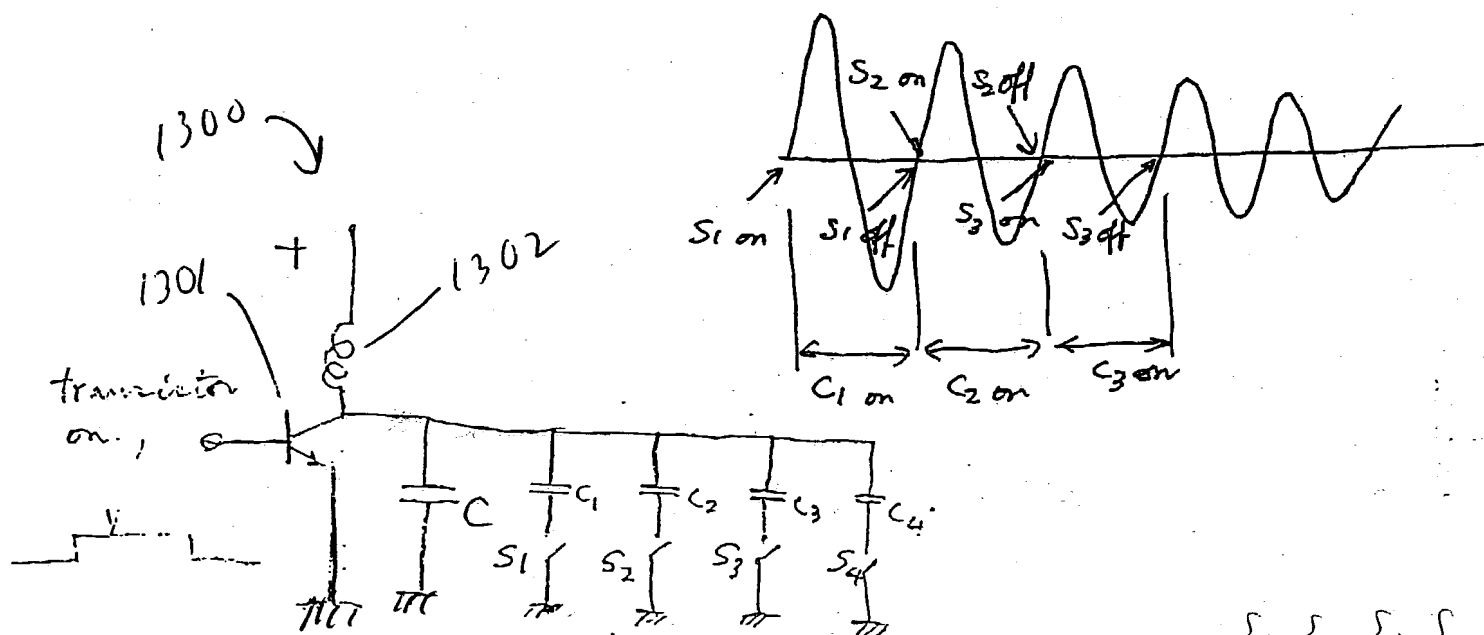
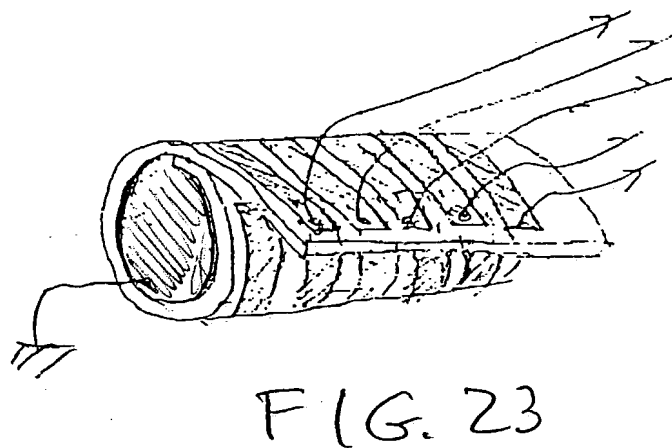
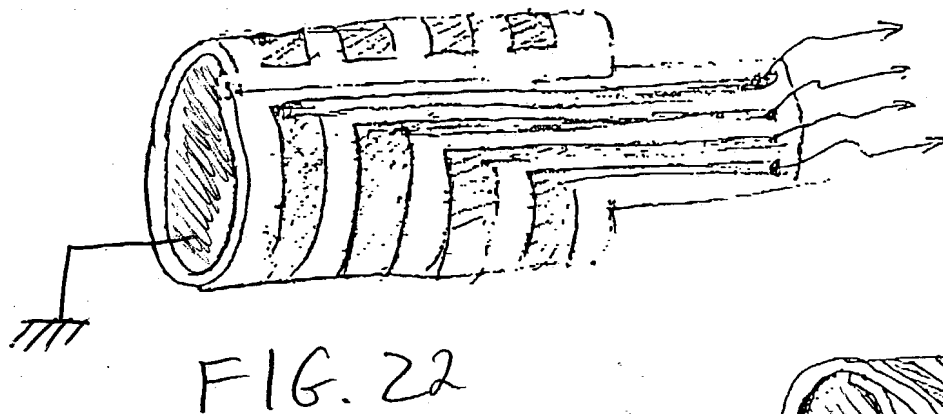
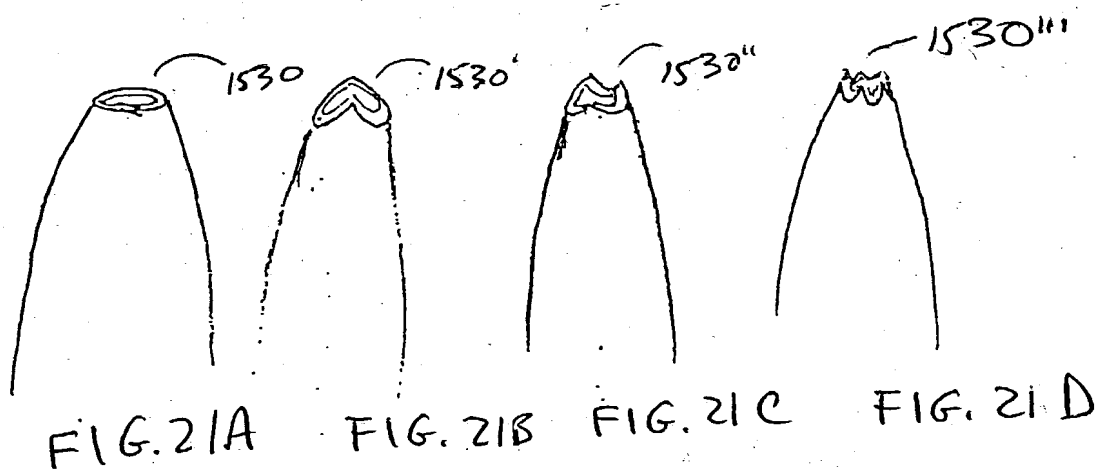
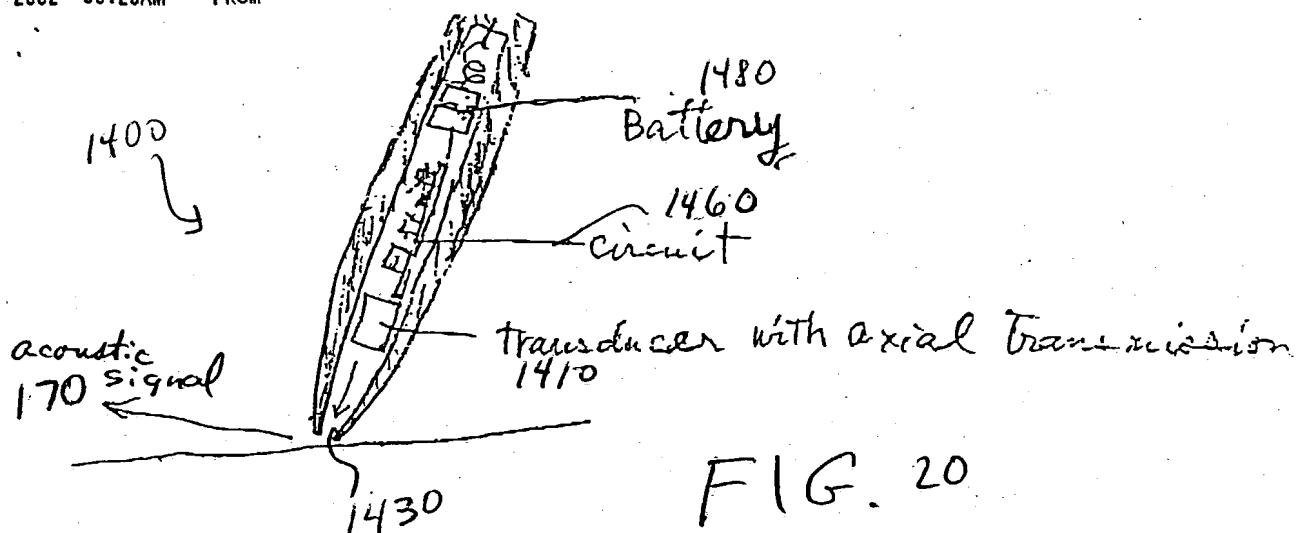


FIG. 19

Every cycle, one of the switches is turned on and sequentially moved towards propagation.





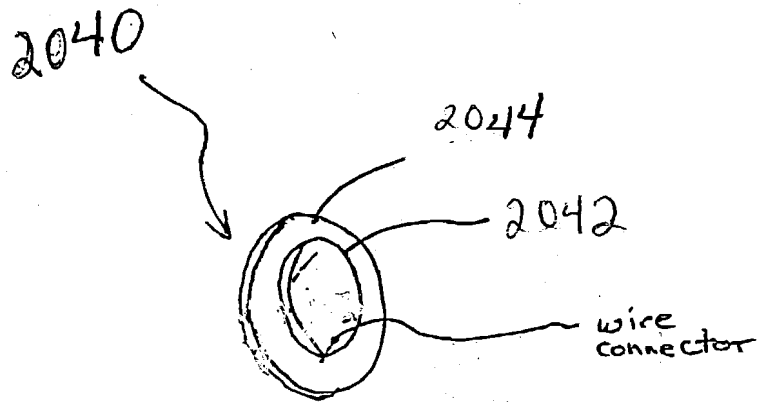


Fig. 24A

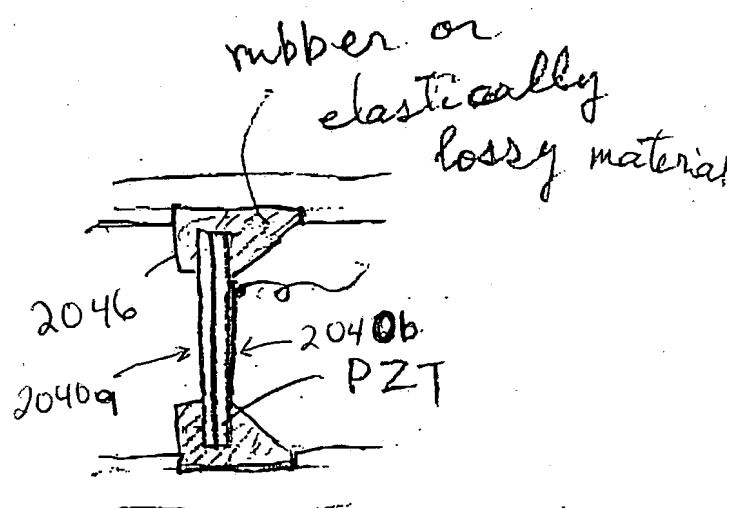


Fig. 24B

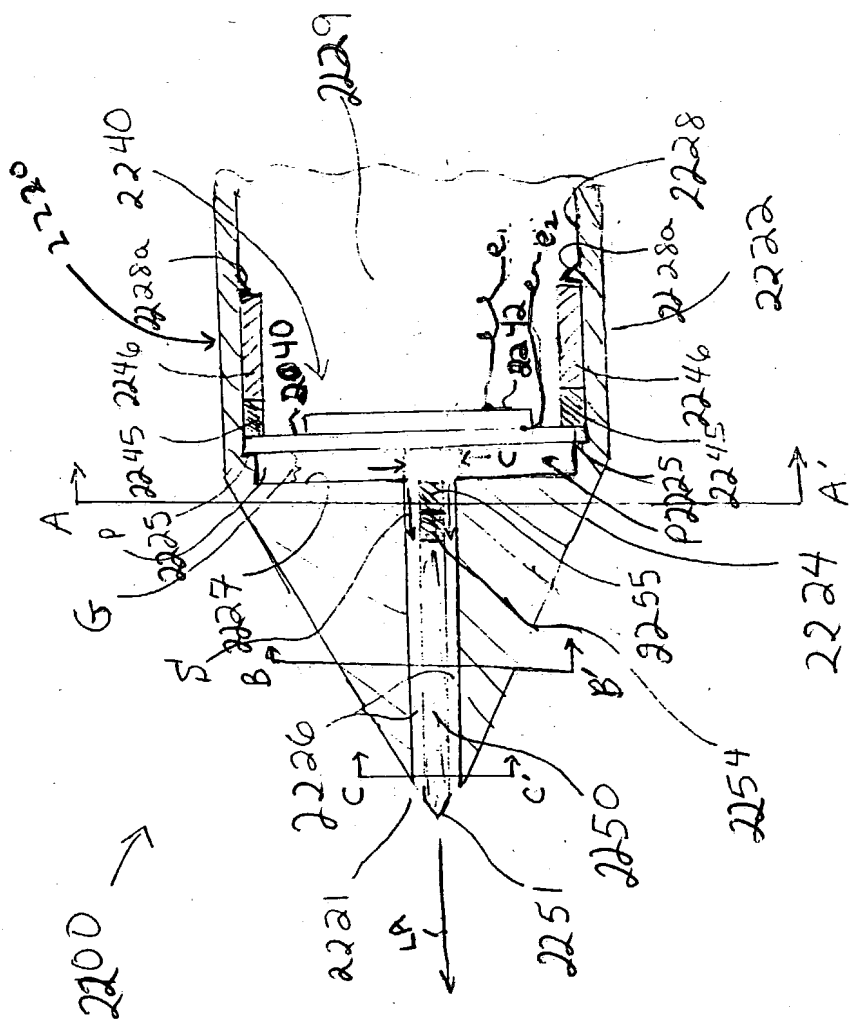
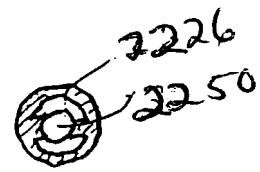
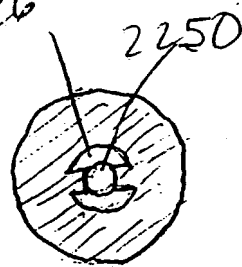
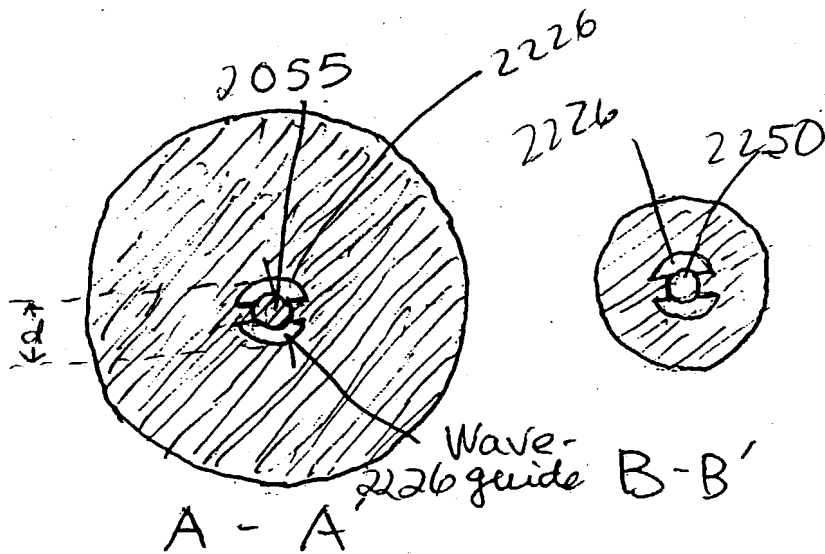


FIG. 25A



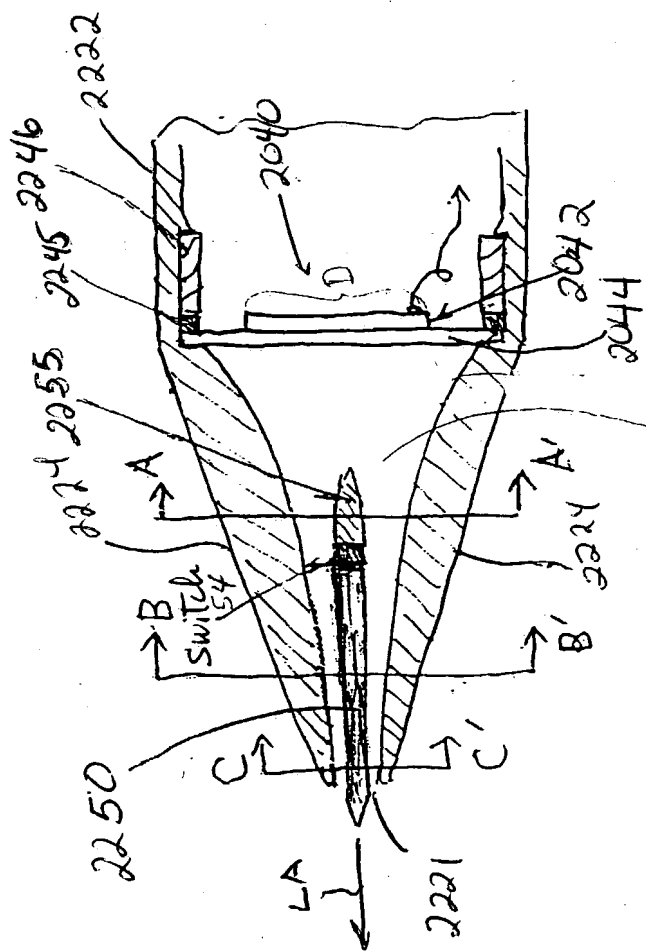
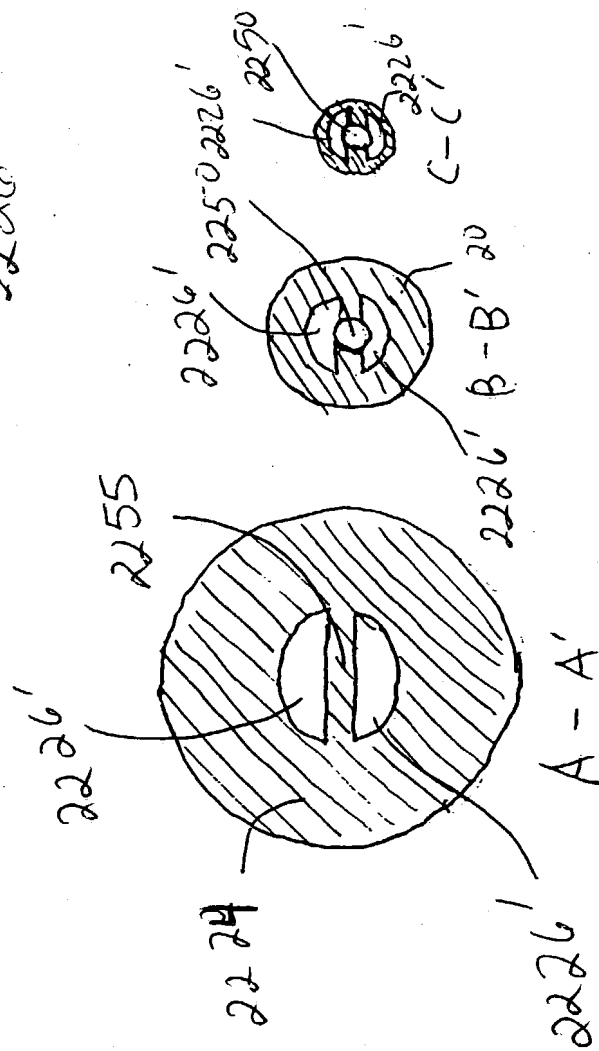
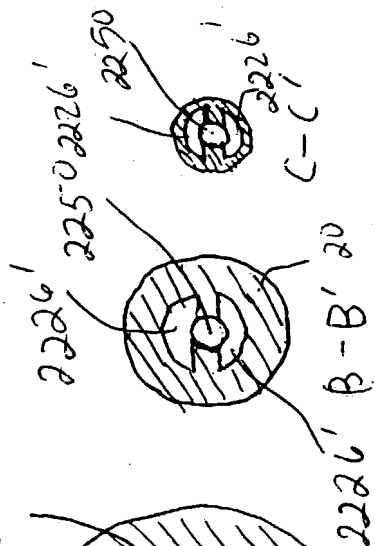


FIG. 26A



F16.26B



F16.26C



FD-36



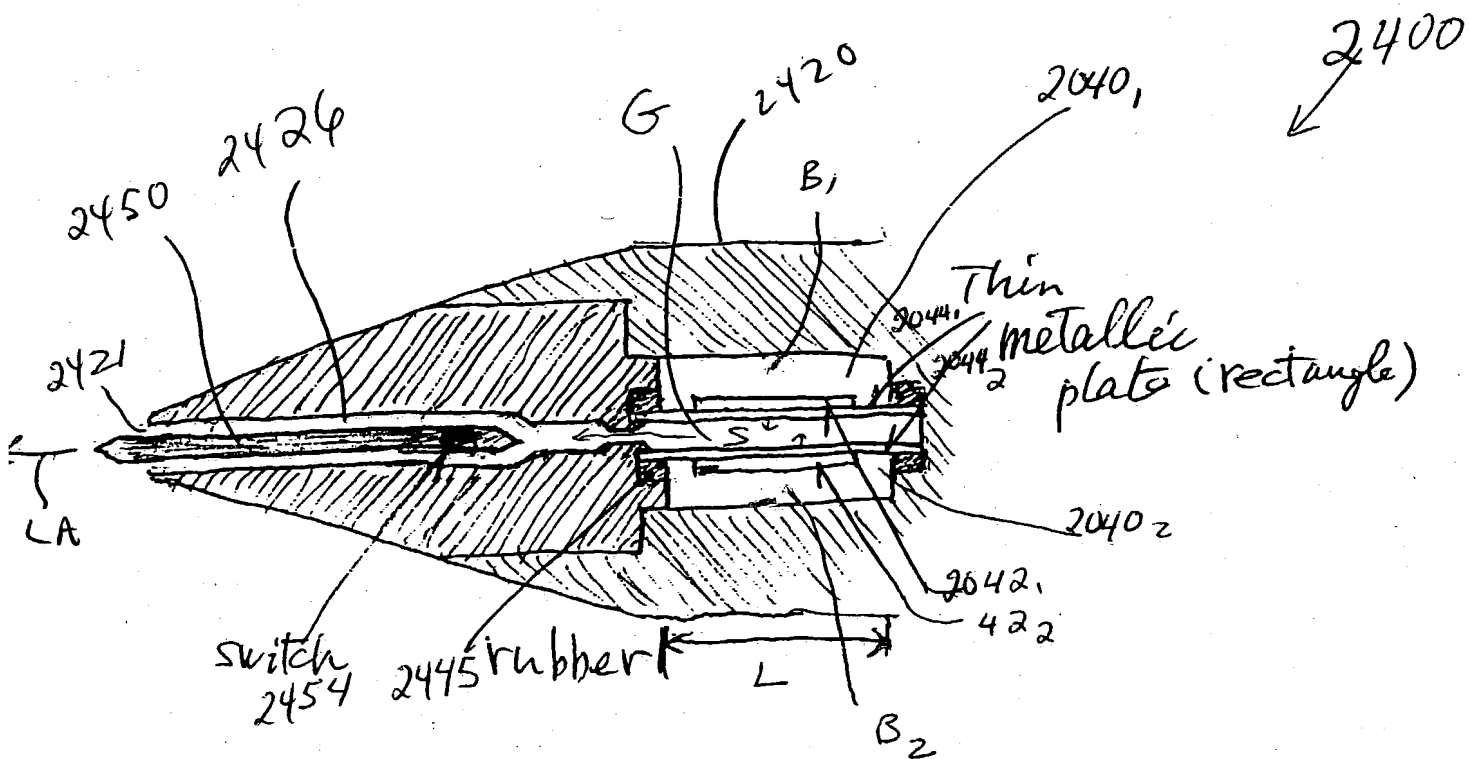
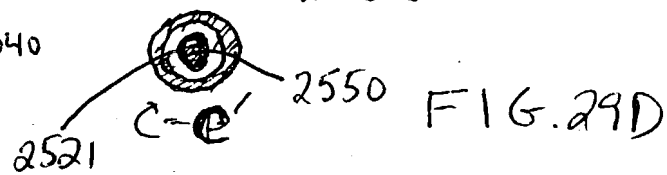
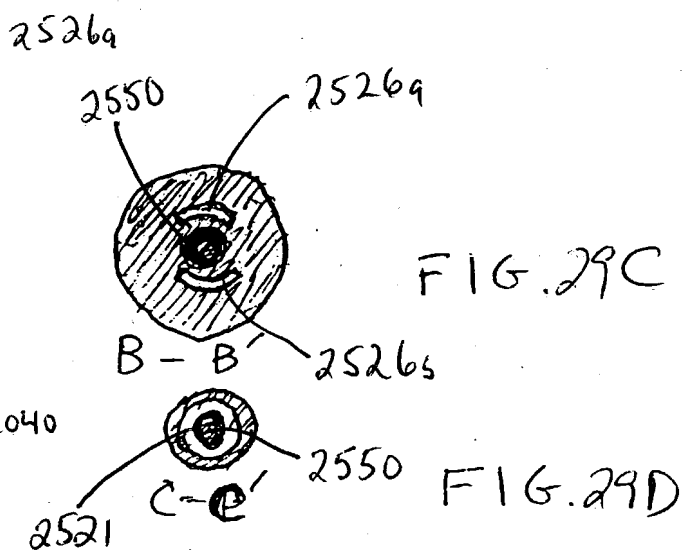
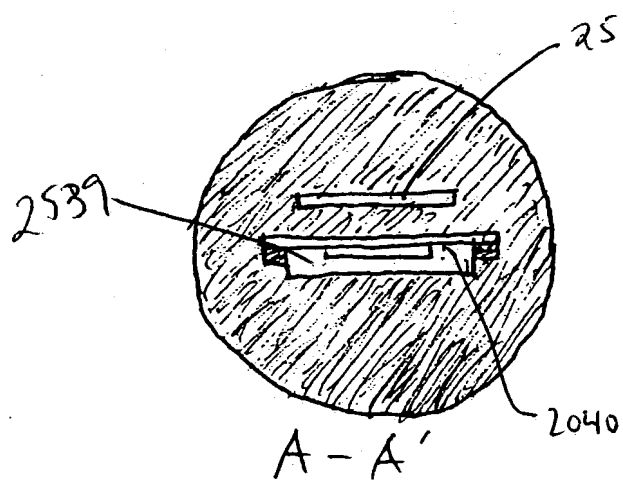
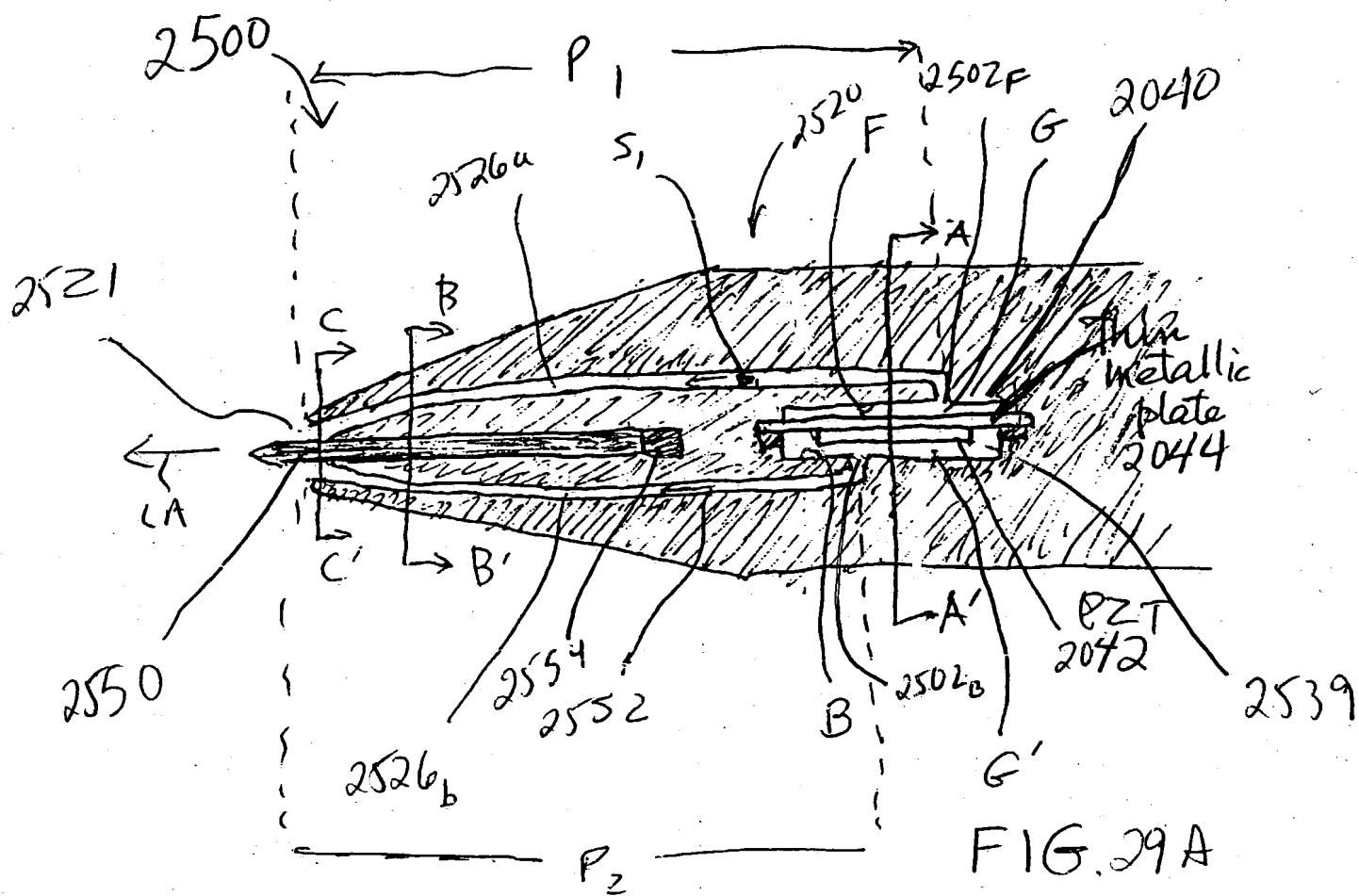


FIG. 28





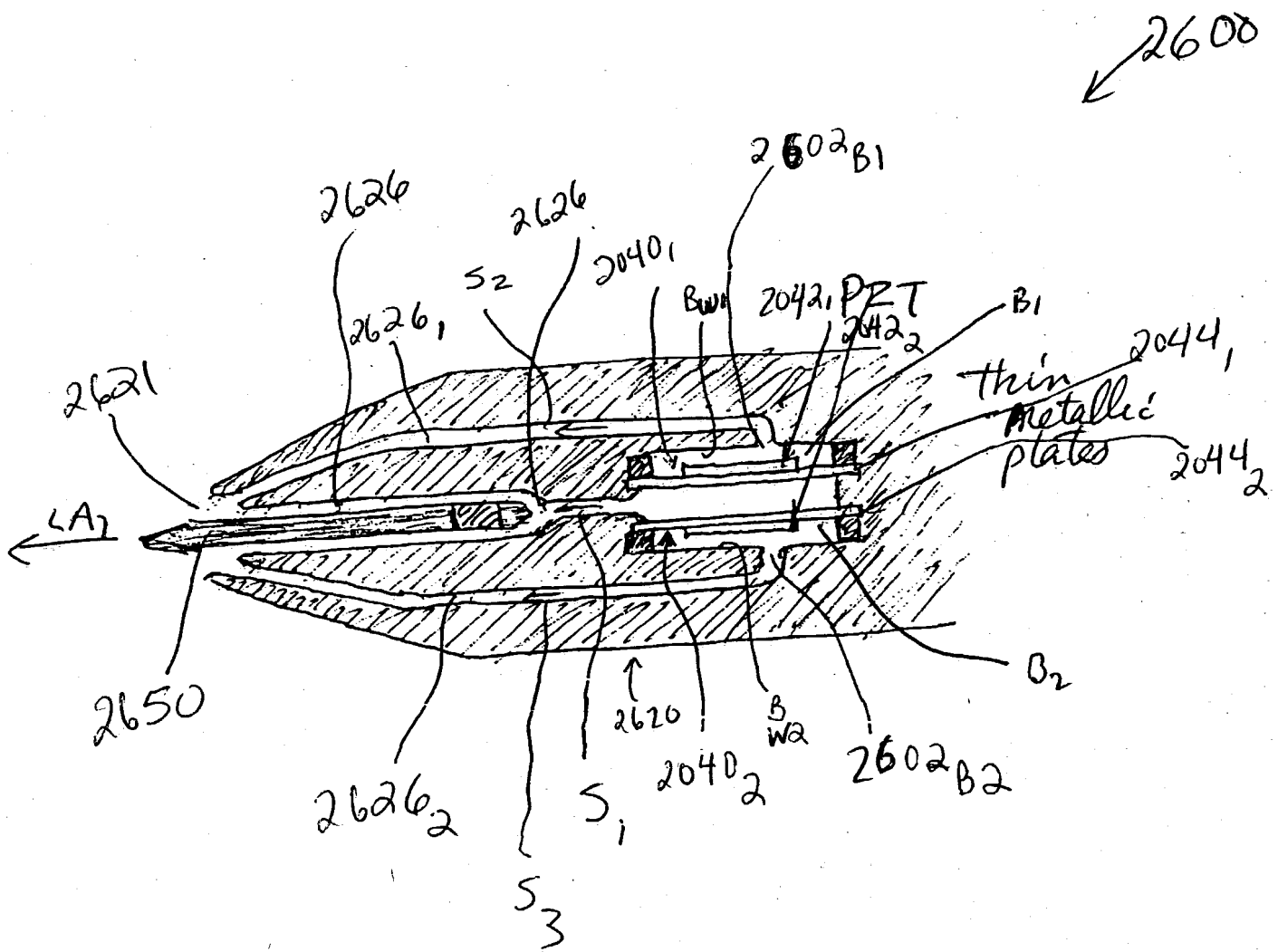


FIG. 30

Fig. 31A

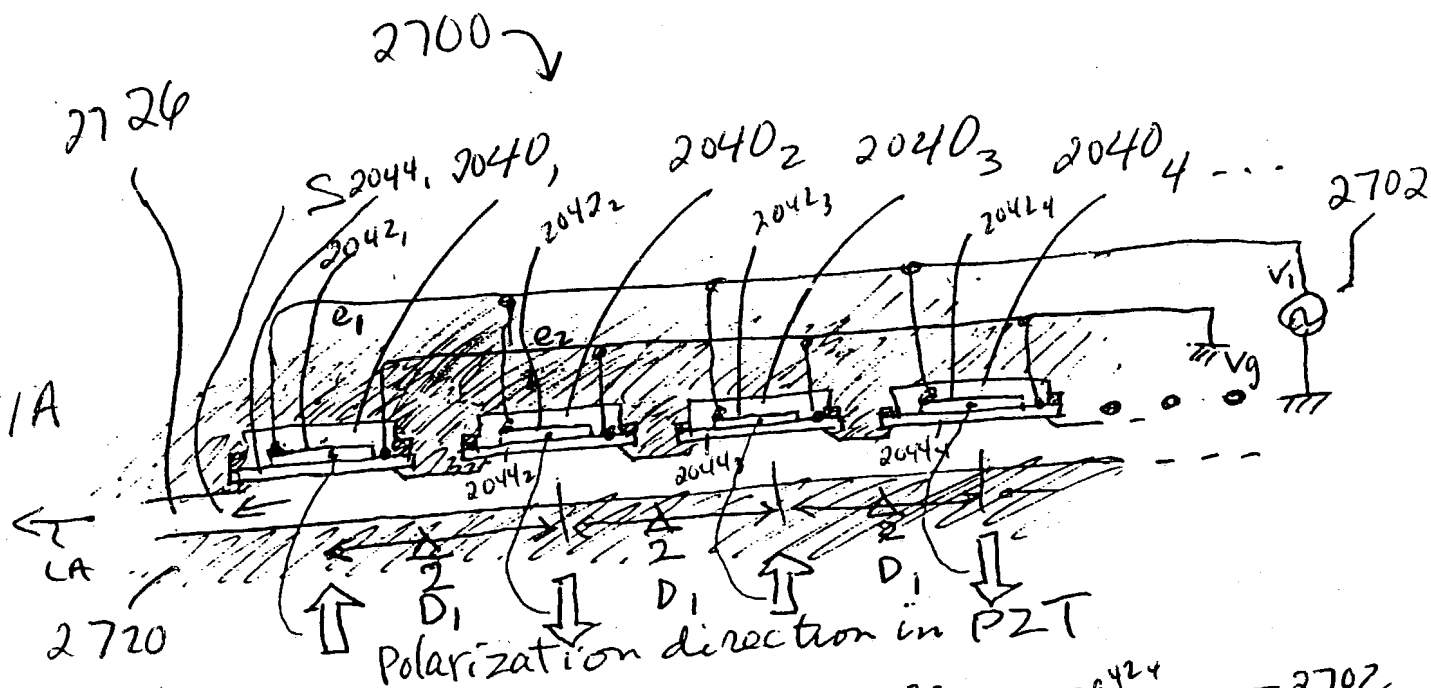
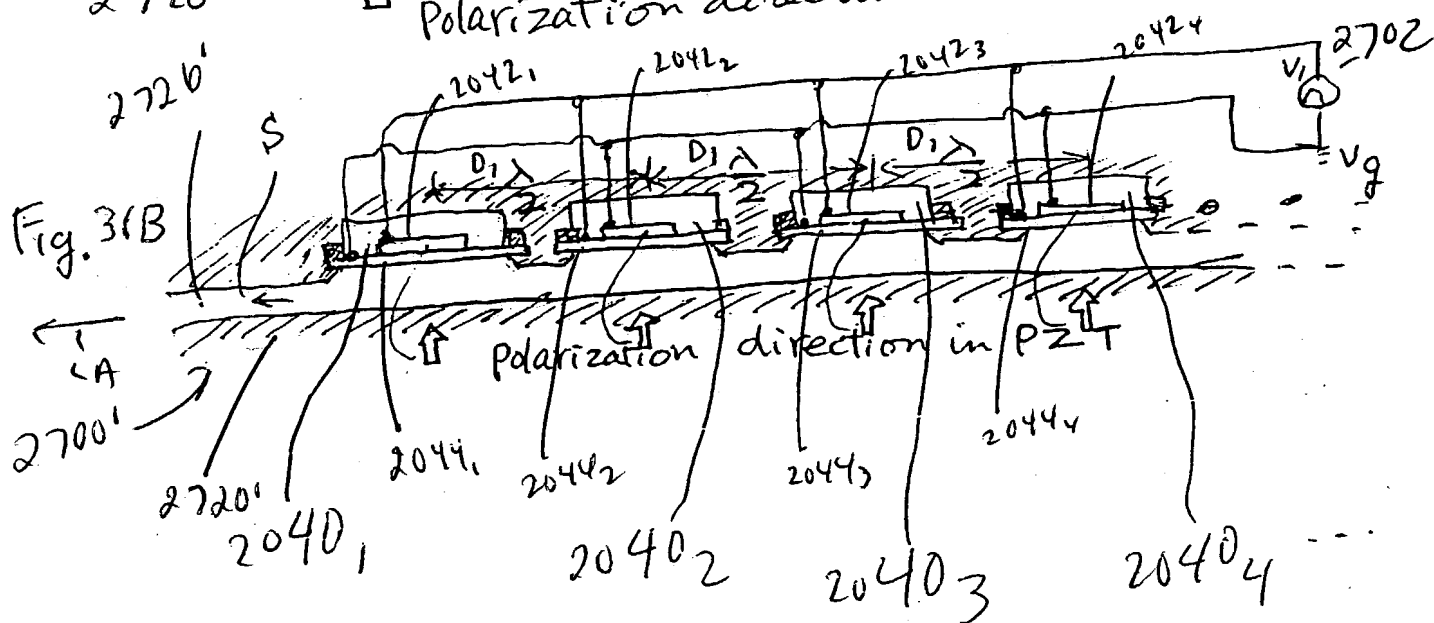


Fig. 31B



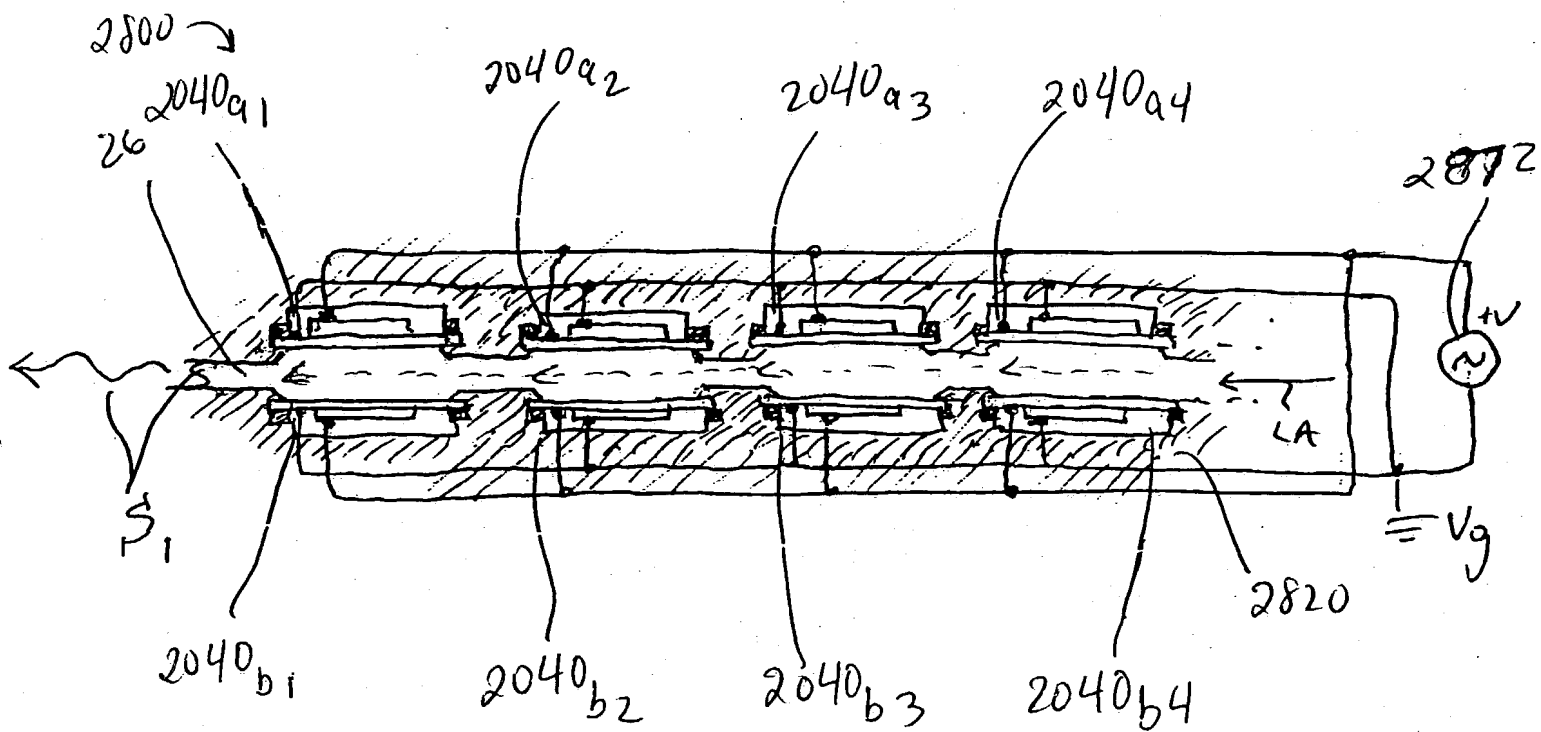


FIG. 32A

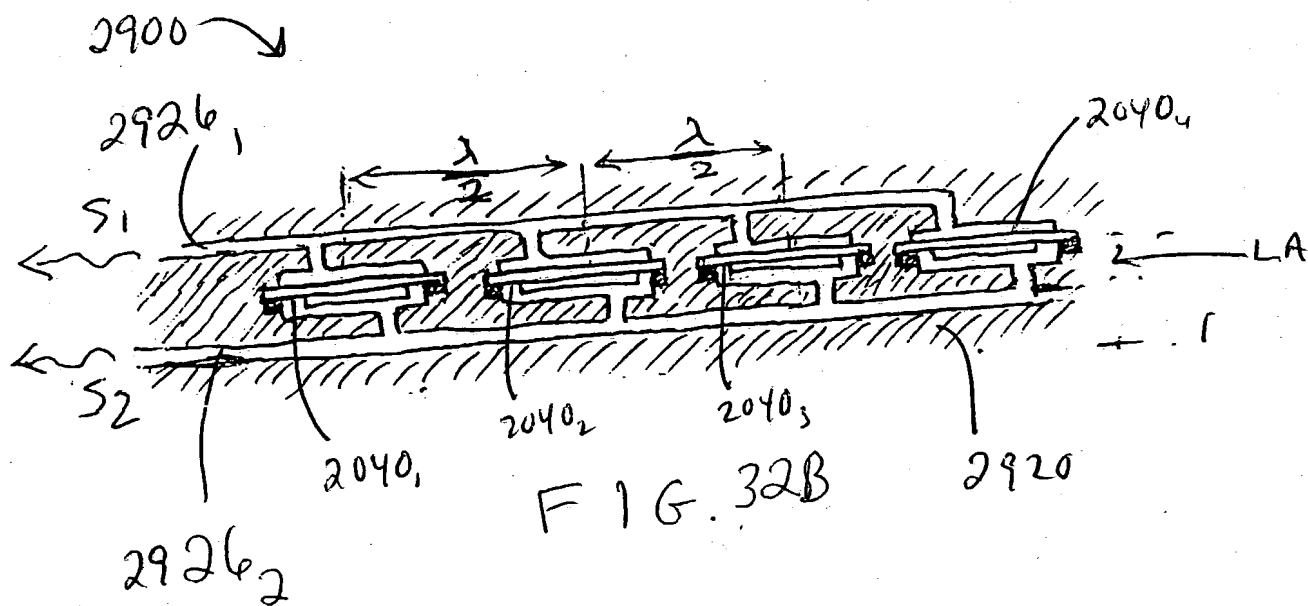


FIG. 32B

4000

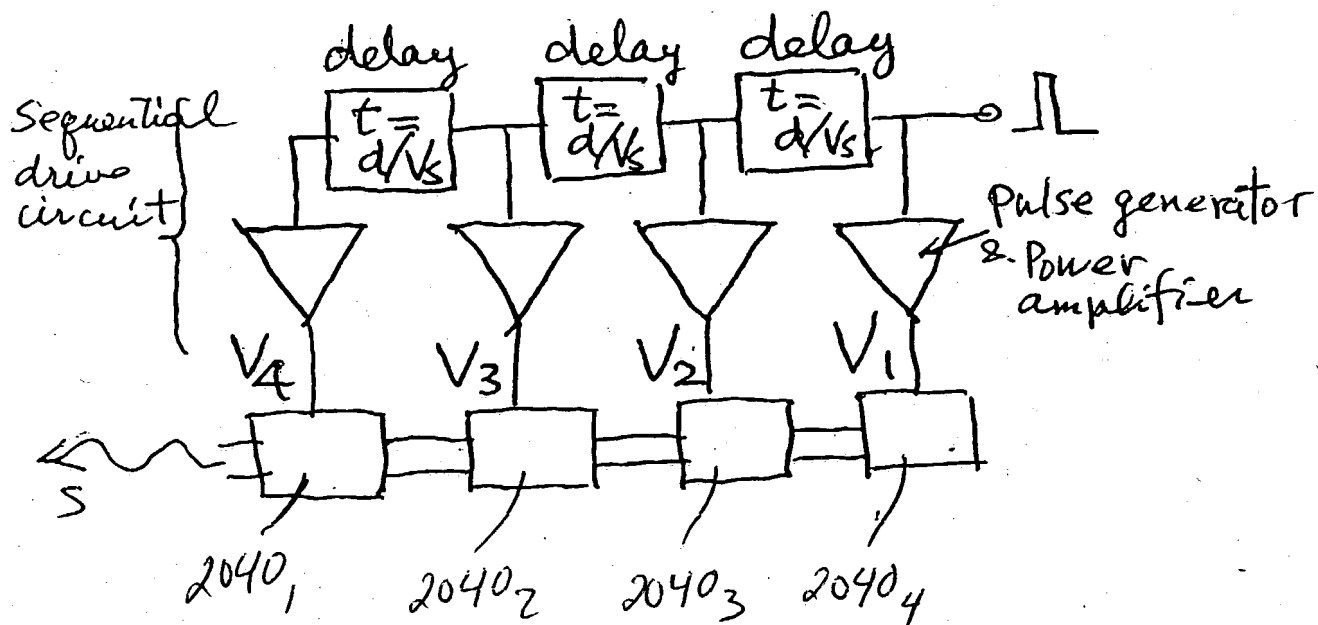


FIG. 33

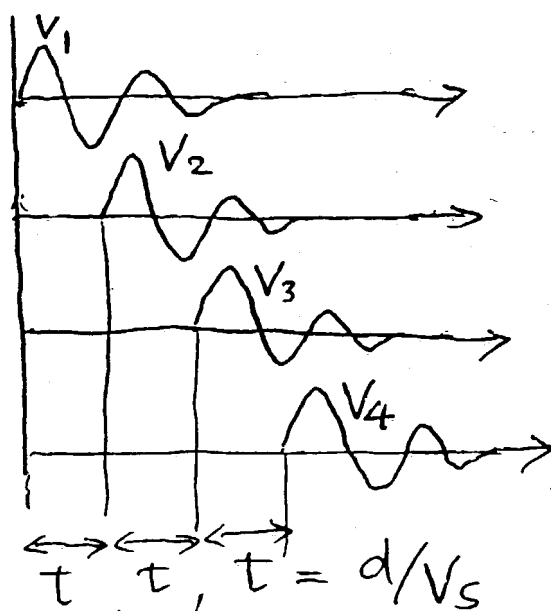


FIG. 34

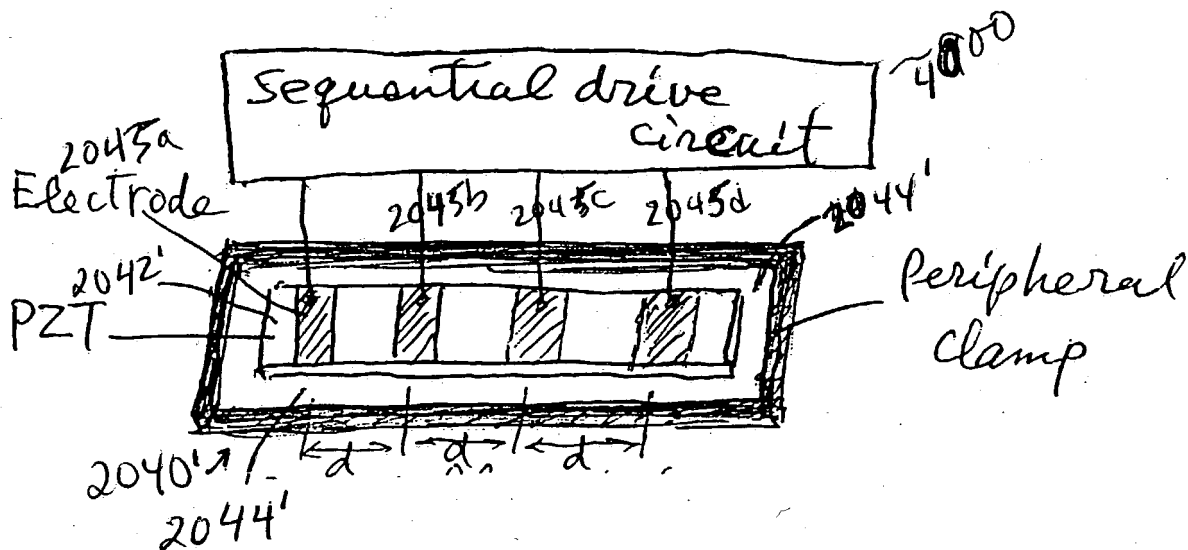


FIG. 35

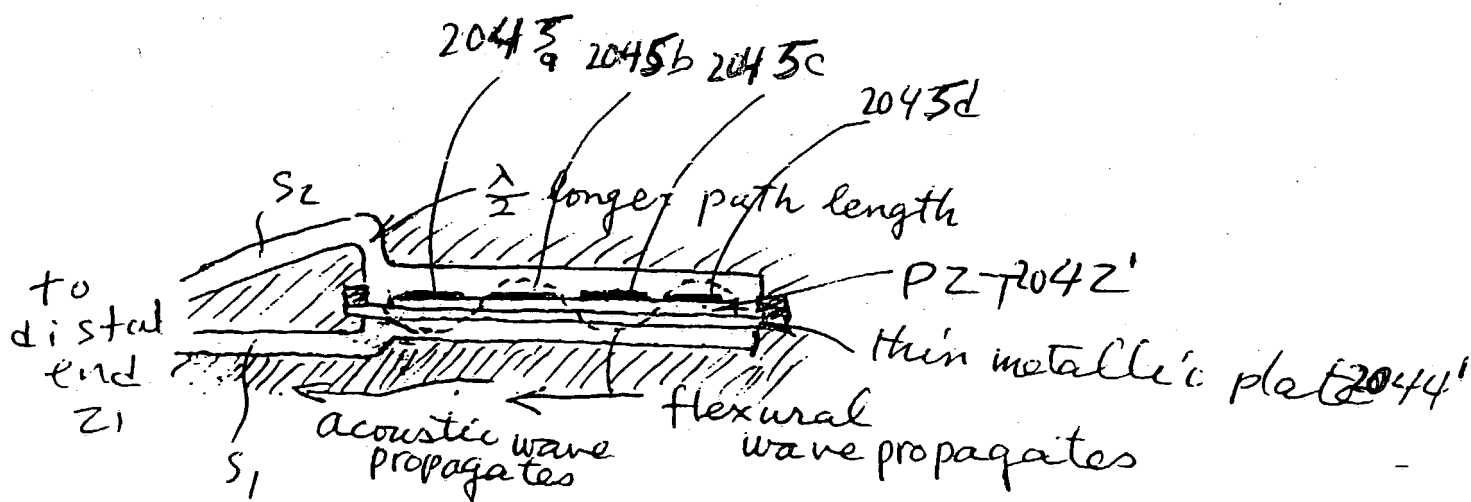


FIG. 36

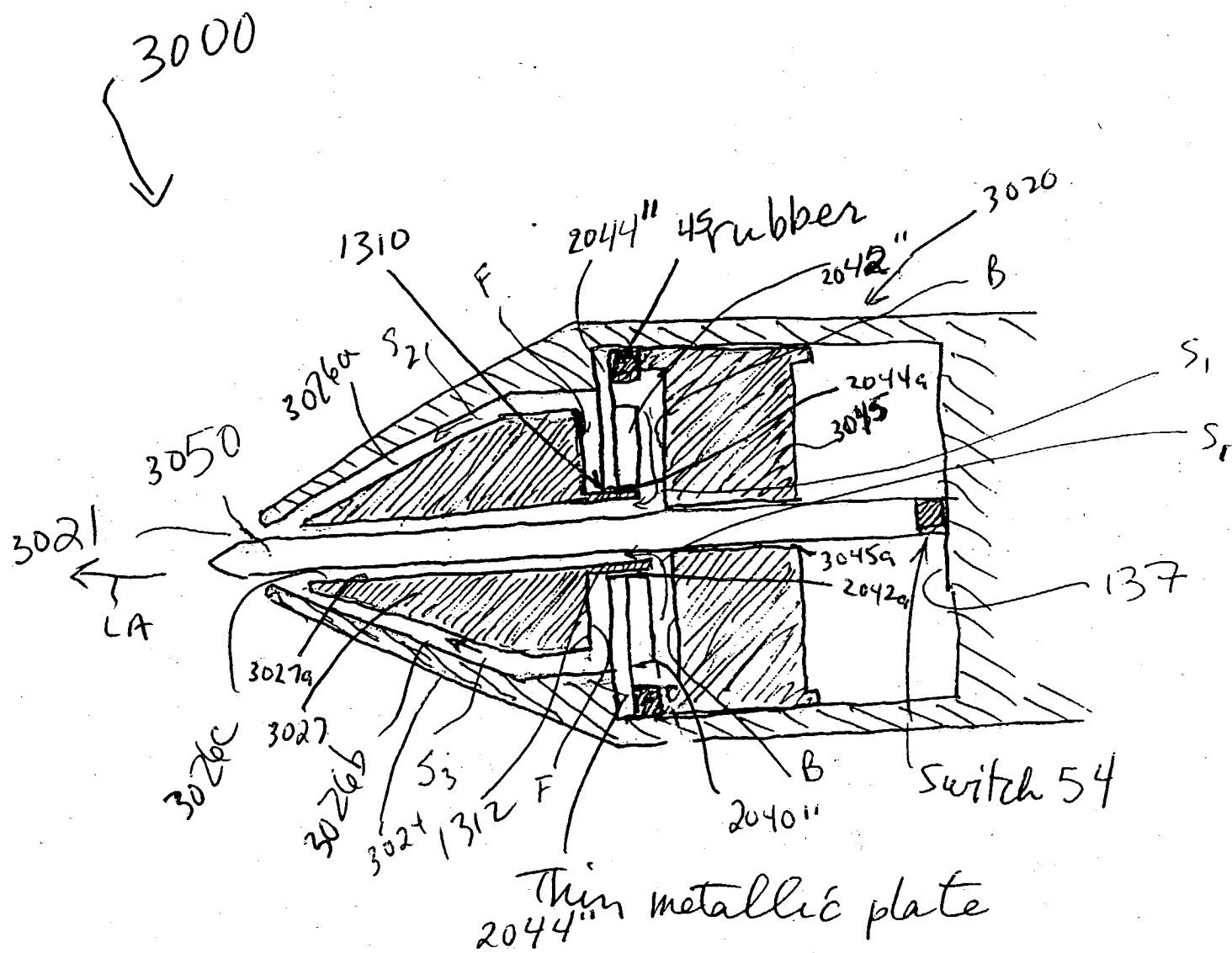


FIG. 37

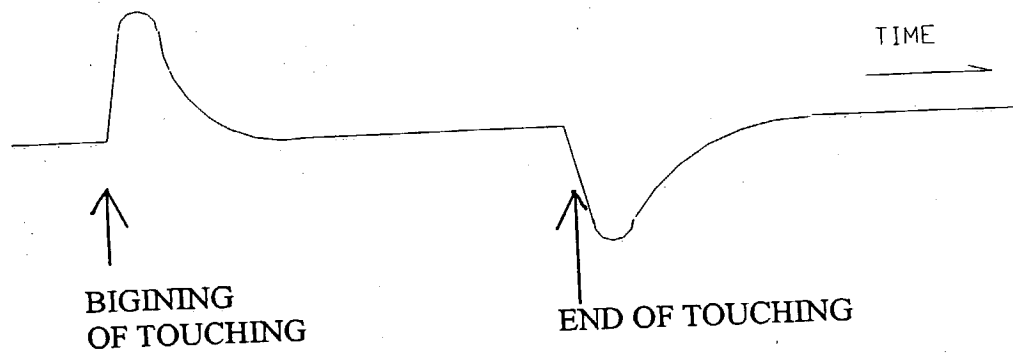
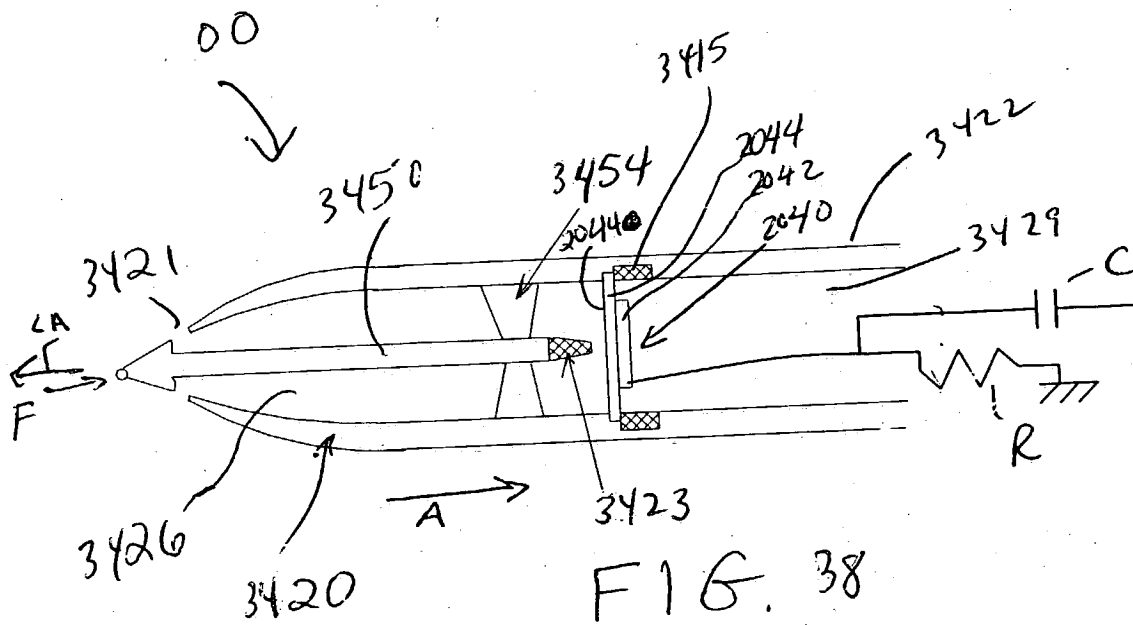


FIG. 39

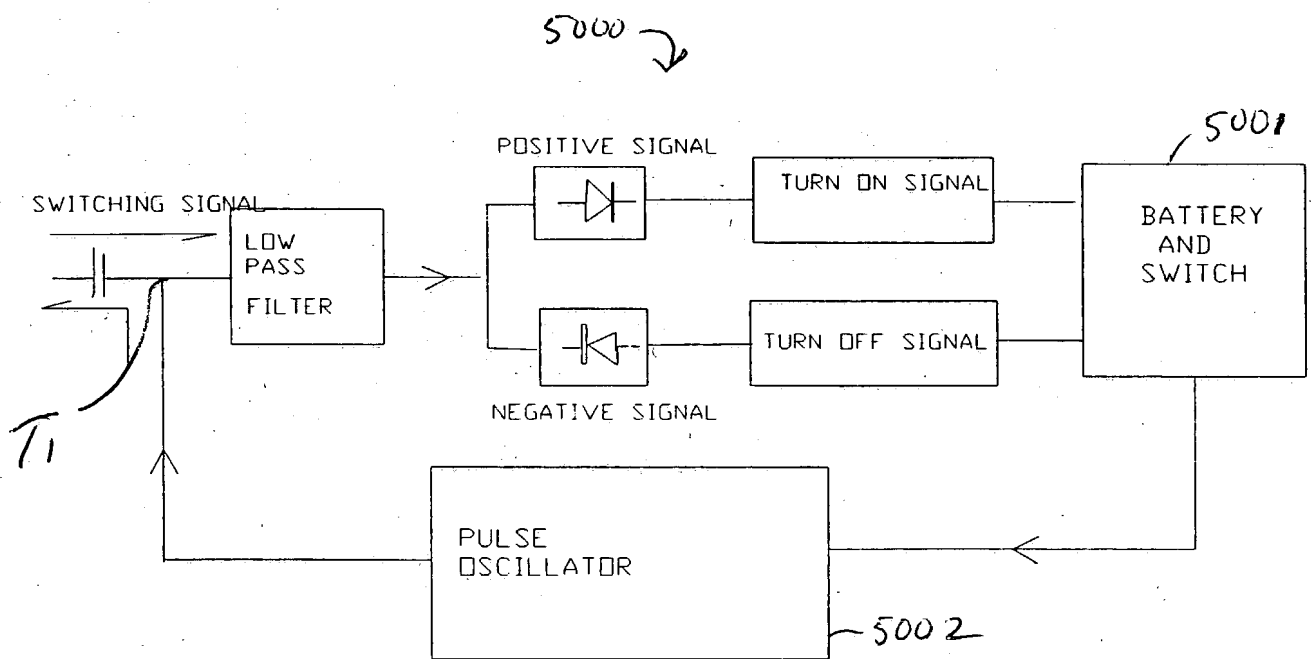


FIG. 40